Fire Commissioner's Statistical Report

1985

Alberta
LABOUR
General Safety Services Division
Fire Prevention Branch

87-00995/

Fire Commissioner's Statistical Report

1985

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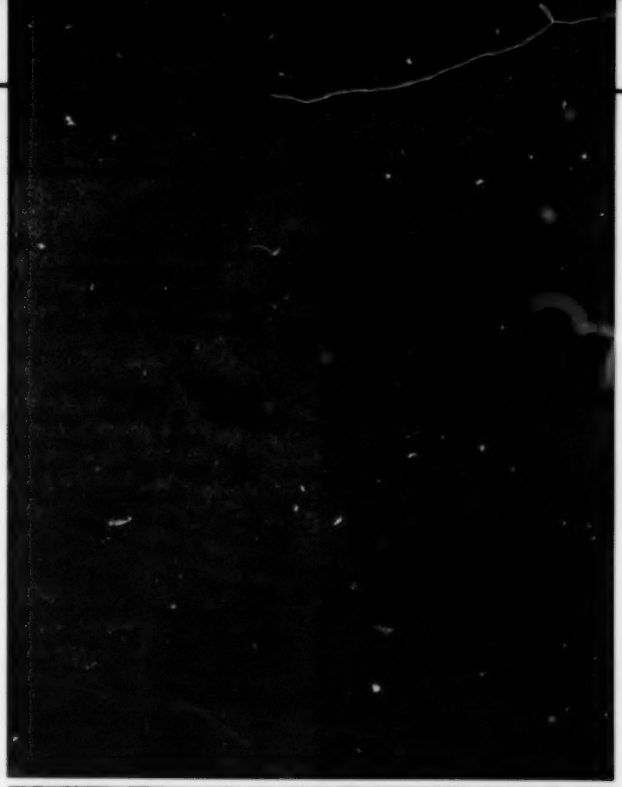


Introduction

66th Statistical Report of the Fire Commissioner

The Fire Prevention Branch strives, with the assistance of municipal fire departments, to minimize the number of fires, fire fatalities and injuries, and the amount of fire-related property damage in Alberta.

Branch personnel inspect buildings and facilities to ensure they meet acceptable levels of fire and life safety. Branch staff also conduct fire loss investigations throughout the province and offer assistance to fire and police departments conducting their own fire investigations. High priority is given to the investigation of fire fatalities and arson related fires.

Staff members develop and present training and information programs for municipal and industrial fire departments in Alberta. These cover a range of topics including fire suppression, prevention and investigation. Staff also conduct fire safety education programs for the general public dealing with the hazards of fire, sources of ignition and actions to take in the event of fire. The branch collects and disseminates statistical information on fires.

The Alberta Fire Code became effective in August, 1984. It was established to provide uniform fire safety regulations throughout the province. Meetings and seminars are regularly held in various locations to ensure uniform application and to familiarize local authorities with the contents of the code.

The Fire Prevention Council, which was established in 1983, effectively carried out its responsibilities as an appeal and advisory body to the minister. In addition to hearing 40 appeals from orders issued under the authority of the Fire Prevention Act, the eleven member council reviewed the Fire Code to consider proposed amendments. The council also undertook a special study of the fire protection requirements for existing autobody shops that involve paint spray application.

On March 18, 1986 the minister requested the council to assume the responsibility of serving as an independent body to which interested parties may express their ideas and views pertaining to training programs.

Members of the Council, as of March 31, 1986, are:

James R. Morrison - Chairman

Martin F. Chapman - Vice-Chairman

Harry Dowhan

Jack D. Edworthy

Malcolm Faille

Roger Field

Don Goedbloed

Wayne G. Stanyer

Fire Commissioner - W.D. MacKay

Allen Stephanson, and

Alberta Wager

A vacancy on the council created by the resignation of R. Hurlburt was not filled by year's end.

Branch inspection services are available from six regional offices throughout Alberta. The branch priorizes certain occupancies and places special emphasis on the inspection of assembly, residential and institutional occupancies in smaller municipal centres with limited fire prevention resources. Two special inspection teams were formed to conduct upgrading inspections of medical care facilities and prisons throughout the province. As well, regular inspections were conducted of educational facilities that require, or are in the process of, upgrading.

The Fire Prevention pilot project for Northern Alberta undertaken at the request of the Northern Development Council is well underway, working to reduce the loss of life and property from fires. A school fire safety education program was established and is benefiting people in the northern part of Alberta. A second phase of this pilot involves the communities of Desmarais/Wabasca and Calling Lake. The branch trained three residents from the area in basic fire safety, who strive to improve fire safety through home inspections and public education programs.

In conjunction with Alberta Housing, the branch established a contract with an architect to conduct a study of fire safety in homes. This project, to be

completed by October 1986, will suggest directions that may be taken to reduce the number of fires, injuries and fatalities in single family dwellings.

A four month fire safety/prevention education program directed at school children in grades 1 to 6 and the general public was continued in selected locations throughout the province, that had high fire death rates. As part of the program, approximately 21,000 people saw an eight panel display and talking robot fire hydrant. These were used at major exhibitions, trade fairs and shopping malls to promote fire prevention and methods for surviving a fire. In addition approximately 32,000 pieces of fire safety literature were distributed.

Seventeen regional fire prevention committees consisting of fire department representatives continued to meet regularly with branch staff to discuss fire prevention and inspection programs. These groups continue to increase the levels of interest in fire prevention at the municipal level.

Police and fire authorities made detailed examinations into a number of fire losses in Alberta. Such investigations are required by the Fire Prevention Act when a fatal fire occurs, when arson is suspected or when the cause of the fire is undetermined. During 1985-86, 952 detailed investigations were carried out and branch staff assisted in 319 of them. Included were 29 fatal fires causing 30 deaths. The investigations conducted during the year revealed 642 arson fires, a slight reduction from the previous year.

Another major activity of the branch is the training of fire department personnel. In order to maximize the facilities and equipment of the Alberta Fire Training School at Vermilion, the branch continued to promote co-operative training efforts with local fire departments. The school provides the fire departments with all course material and training aids, while the fire department provides the instructors. Evaluations and testing are conducted by branch staff, and each successful candidate receives a certificate issued by the school. Such an arrangement permits the Alberta Fire Training School to focus its efforts on specialized training programs.

The number of persons trained continued to increase. Enrollment for 1985-86 showed a six percent increase over the previous year. Table 14 provides additional information on the branch's programs and activites.

Comparative Statistical Summary
for the three years ending March 31, 1984, 1985 and 1986

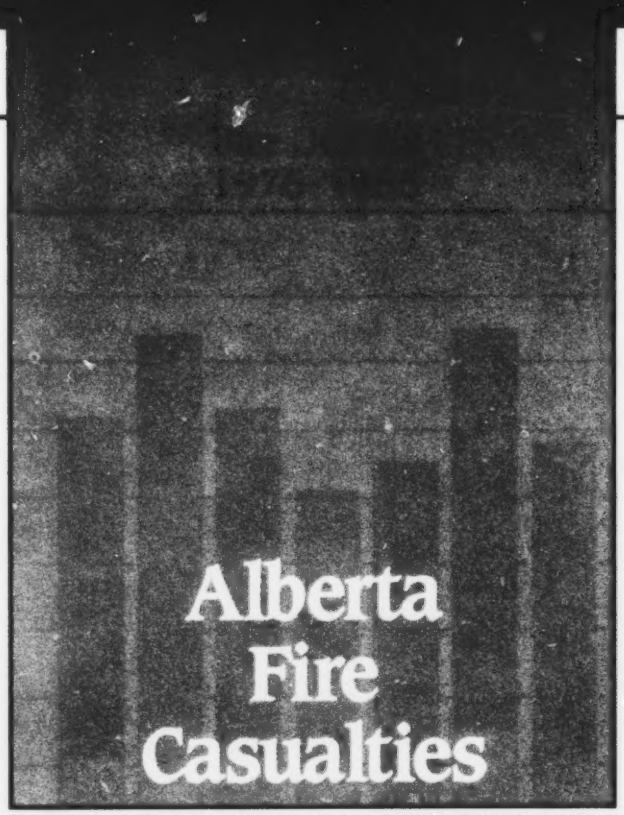
	1983-84 No.	1984-85 No.	1985-86 No.
A. Fire Prevention			
Building fire inspections conducted	2,624	2,930	2,641
— recommendations to correct hazards issued	8,028	10,654	8,793
— orders to remedy conditions issued	3	16	13
Plans examined	595	455	282
Meetings and lectures conducted	1,151	1,244	1,588
— attendance	16,908	12,798	19,056
B. Fire Investigation			
Investigations conducted by Branch	318	286	319
Investigations by other agencies	774	616	633
Total	**1,092**	**902**	**952**
Causes of Fires Investigated			
— arson	780	649	642
— accidental or unknown	298	251	326
— under investigation	14	2	8
Total	**1,092**	**902**	**976**
C. Fire Service Personnel Training		**ATTENDANCE**	
Alberta Fire Training School Municipal Training Programs			
Course Title (Duration 44 hrs.)			
Part I Firefighter	146	146	154
Part II Firefighter	90	113	125
Part III Firefighter	60	48	43
Part IV Firefighter	77	41	37
Part V Firefighter	19	38	40
Part VI Firefighter	22	31	20
Pump Operator "A"	36	109	111
Pump Operator "B"	13	11	22
Fire Prevention for the Firefighter	21	19	18
Vehicle Extrication & Trench Rescue	—	20	20
Fire Officer C1, Building Construction	7	16	20
Fire Officer C2, Leadership	6	11	20
Fire Officer C3, Pre-fire Planning	13	14	18
Fire Officer C4, Fire Suppression and Safety	12	8	17
Fire Officer C5, Strategy and Tactics (Theory)	16	31	18
Fire Officer C6, Strategy and Tactics (Practical)	—	—	12*
Fire Officer C7, Fire Investigation	18	21	20
Fire Officer C8, Fire Prevention - Fire Protection Equipment	—	14	14
Fire Officer C9, Fire Prevention	—	6	17
Fire Prevention Officer DA, Building Codes & Standards	—	18	18
Fire Prevention Officer DB, Alberta Fire Code	—	17	19
Fire Prevention Officer D1, Water Supply	0	7	8
Fire Prevention Officer D2, Standpipe and Sprinkler Systems	14	8	11
Fire Service Instructor E1	12	18	20
Fire Service Instructor E2	—	—	13*
Total Municipal Fire Department Personnel Attending A.F.T.S.	**582**	**765**	**835**

* These courses were offered for the first time in 1985/86

Comparative Statistical Summary
for the three years ending March 31, 1984, 1985 and 1986

	1983-84 No.	1984-85 No.	1985-86 No.
C. Fire Service Personnel Training (Cont.)		**ATTENDANCE**	
Extension Courses — Municipal Presentation			
Course Title (Duration 44 hrs.)			
Part I Firefighter	339	295	266
Part II Firefighter	—	79	48
Pump Operator "A"	—	—	5*
Fire Prevention for the Firefighter	45	35	24
Fire Officer C2, Leadership	—	14	—
Fire Officer C7, Fire Investigation	66	22	20
Fire Officer C9, Fire Prevention	—	—	23*
Fire Service Instructor E1	—	14	48
Fire Prevention Officer DA, Building Codes & Standards	—	—	50*
Fire Prevention Officer DB, Alberta Fire Code	—	—	57*
Personnel Attending A.F.T.S. Sponsored Extension and Local Courses	**450**	**459**	**541**
Total Municipal Fire Department Personnnel	**1,032**	**1,244**	**1,376**
Industrial Programs			
Course Title (Duration as indicated)			
Part I Industrial Firefighter (16 hrs.)	88	181	195
Part IA Industrial Firefighter (8 hrs.)	99	144	149
Part IB Industrial Firefighter (16 hrs.)	—	—	23*
Part II Industrial Firefighter (16 hrs.)	98	166	140
Part III Industrial Firefighter (16 hrs.)	38	134	89
Aircraft Crash/Fire Response - Dry Chemical	12	12	0
Total Industrial Fire Department Personnel	**335**	**637**	**596**
Grand Total Attendance at A.F.T.S. Sponsored Courses	**1,367**	**1,861**	**1,972**
One-day Seminars	**185**	**128**	**43**
Two-day Seminars	**23**	**0**	**0**

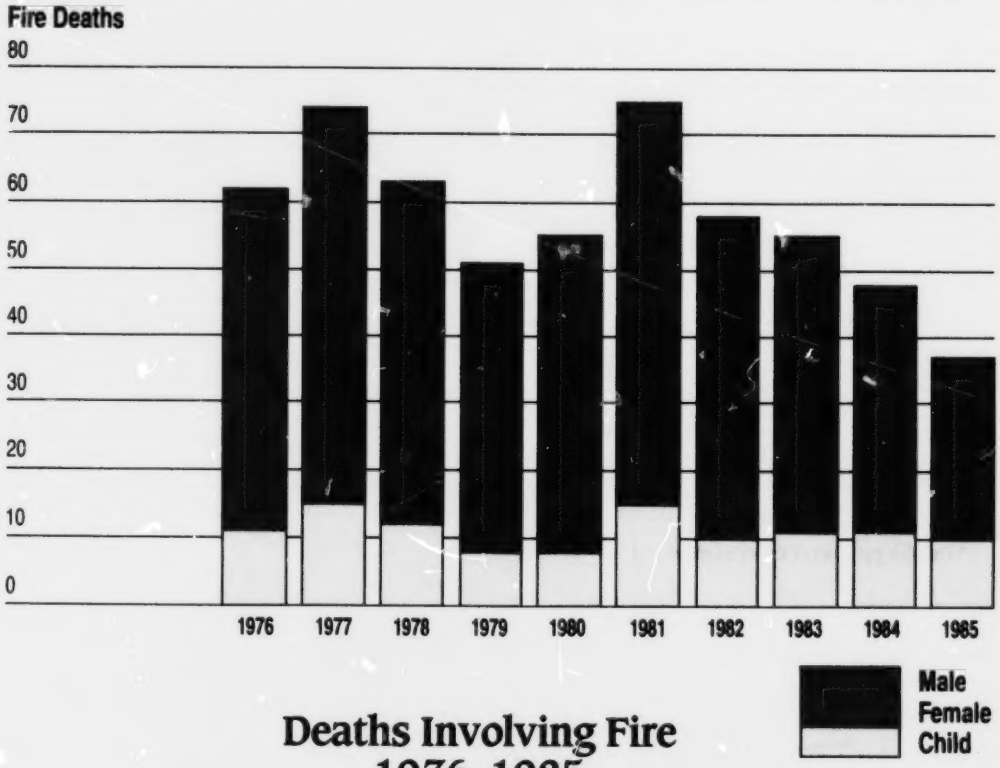
* These courses were offered for the first time in 1985/86



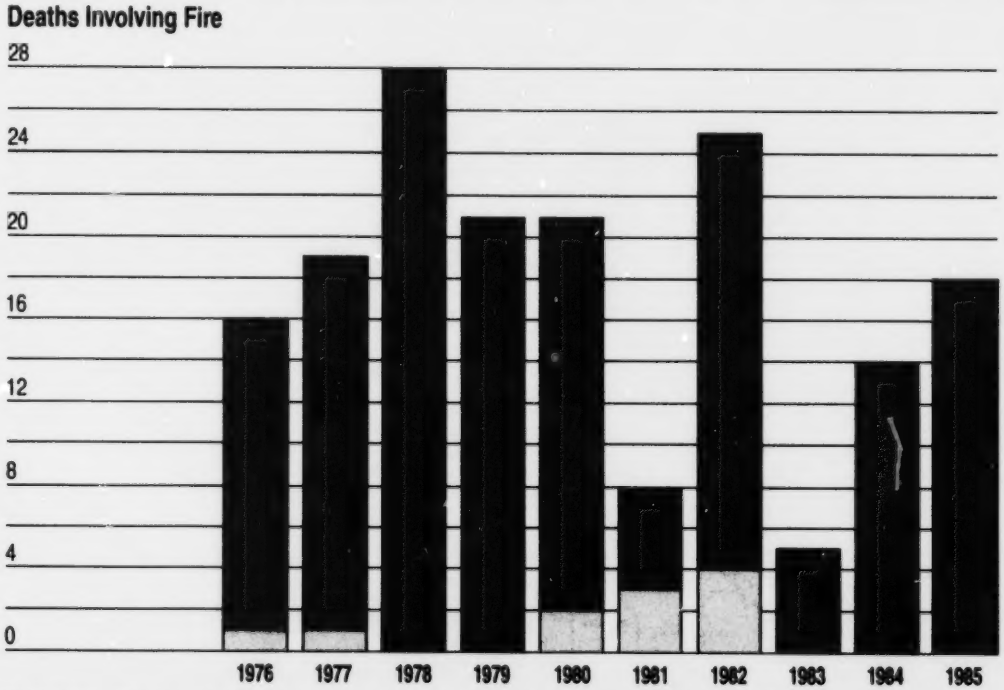
Alberta Fire Casualties

Section One

Fire Deaths
1976-1985



Deaths Involving Fire
1976-1985



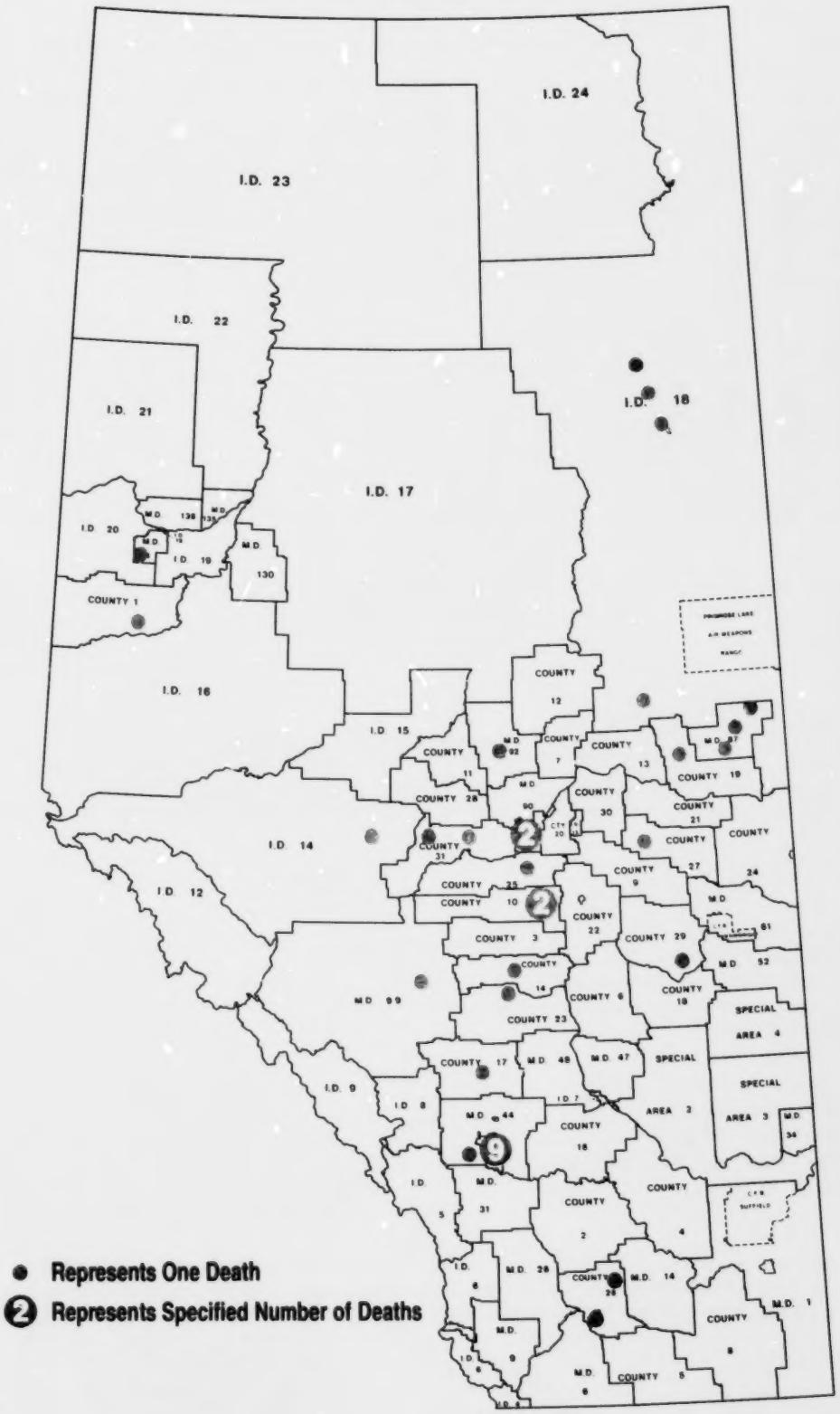
Commentary: Fire deaths refer to persons who died directly as a result of a fire, either by smoke inhalation or burns. Deaths involving fire refer to persons who were in a place where fire occurred, but who may have died from a cause other than the fire itself (e.g. a person who dies in an automobile accident where the vehicle catches fire, a suicide, a death in an arson fire).

Death Rates

	Alberta					Canada
YEAR	POPULATION	FIRE DEATHS	OTHER DEATHS INVOLVING FIRE	TOTAL DEATHS	FIRE DEATH RATE*	FIRE DEATH RATE*
1976	1,838,000	62	16	78	3.4	3.7
1977	1,894,000	74	19	93	3.9	3.5
1978	1,954,000	63	28	91	3.2	3.6
1979	2,014,000	51	21	72	2.5	3.1
1980	2,146,000	55	21	76	2.6	3.4
1981	2,278,000	75	8	83	3.3	2.9
1982	2,332,000	58	25	83	2.5	2.7
1983	2,336,000	55	5	60	2.4	2.2
1984	2,346,000	48	14	62	2.0	1.9
1985	2,318,000	37	18	55	1.6	N/A

* Deaths per 100,000 population

Fire Deaths by Geographic Location
1985



Casualties by Age and Sex
1985

CASUALTY	Age in Years 0-5	6-15	16-25	26-35	36-45	46-55	56-65	OVER 65	UNKNOWN	TOTAL
Fire Deaths										
Civilian:										
Male	5	0	4	5	1	1	3	5	0	24
Female	4	1	2	1	1	0	2	2	0	13
Firefighter:										
Male	0	0	0	0	0	0	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0
Total Deaths	**9**	**1**	**6**	**6**	**2**	**1**	**5**	**7**	**0**	**37**
Injuries										
Civilian:										
Male	4	18	63	65	29	16	13	8	32	248
Female	3	7	30	14	9	7	6	9	16	101
Firefighter:										
Male	0	0	12	65	43	12	2	0	15	149
Female	0	0	0	0	0	0	0	0	0	2
Total Injuries	**7**	**25**	**105**	**146**	**81**	**35**	**21**	**17**	**63**	**500**

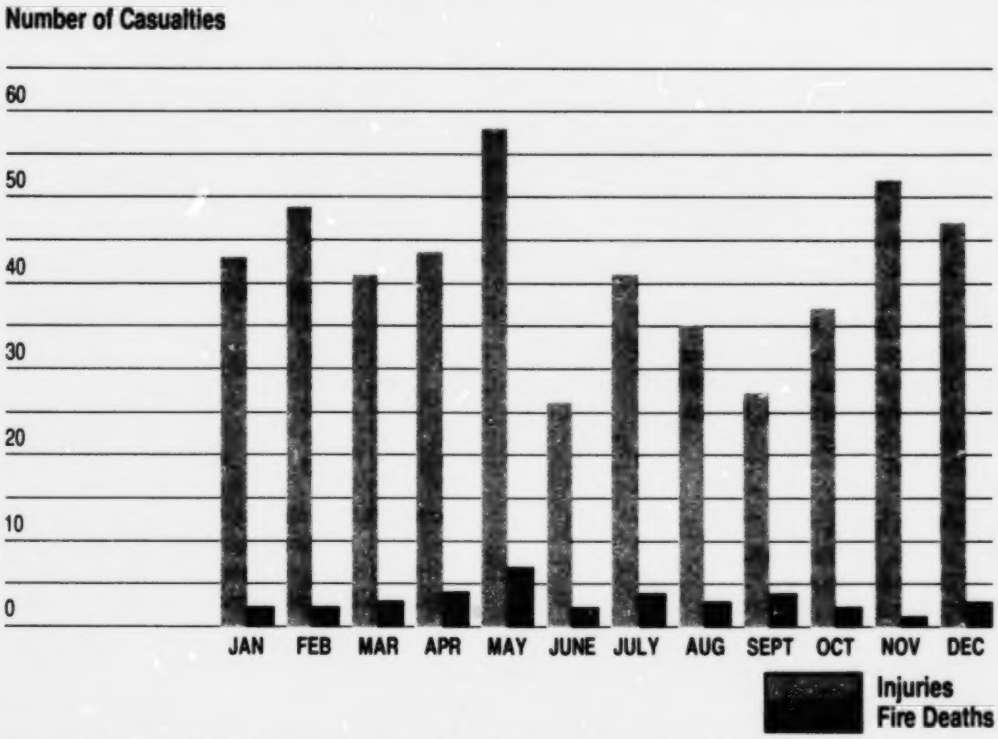
Commentary: The greatest number of fire deaths occurred in the 0-5 age categories followed by the over 65 age category. Injuries were greatest in the 26-35 age category.

Conditions of Casualties
1985

CONDITION OF CASUALTY	FIRE DEATHS	% OF TOTAL	INJURIES	% OF TOTAL
Asleep at time of fire	10	27.0	60	12.0
Bedridden or other physical handicap	0	—	4	.8
Impairment by alcohol, drugs or medication	9	24.3	18	3.6
Awake and no physical or mental impairment at the time of fire	5	13.5	370	74.0
Under restraint or detention	0	—	0	—
Too young to react to fire emergency	4	10.8	5	1.0
Mental handicap (senile)	1	2.7	3	.6
Left unattended (children)	2	5.4	2	.4
Condition of casualty – unclassified or unknown	6	16.2	38	7.6
TOTAL	**37**	**99.9**	**500**	**100.0**

Commentary: Where the condition of the victim was known in a fatal fire, the victim was usually asleep at the time of fire or impaired by alcohol, drugs or medication. The most common known factor for the injured victim was that he was awake and had no physical or mental impairment at the time of fire.

Casualties by Month
1985



Commentary: The number of fire deaths per month is highest in the month of May. May also recorded the highest number of injuries.

Casualties by Time Period
1985

TIME PERIOD	FIRE DEATHS	% OF TOTAL	INJURIES	% OF TOTAL
6:31 a.m. - 2:30 p.m.	16	43.2	194	38.8
2:31 p.m. - 10:30 p.m.	6	16.2	170	34.0
10:31 p.m. - 6:30 a.m.	14	37.8	134	26.8
Unknown	1	2.7	2	.4
TOTAL	**37**	**99.9**	**500**	**100.0**

Commentary: The percentage number of deaths and injuries between 6:31 a.m. and 2:30 p.m. was higher than the other two time periods.

Fire Deaths by Major Property Classifications 1985

PROPERTY CLASSIFICATION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Assembly				
Theatre, Studio, Auditorium	0	—	0	—
Amusement, Recreation Place	0	—	0	—
School, College, University	0	—	0	—
Church, Funeral Parlour	0	—	0	—
Clubs, Social, Sport	0	—	0	—
Museum, Art Gallery, Library	0	—	0	—
Food or Beverage Establishment	0	—	0	—
Passenger Terminal, Station	0	—	0	—
Miscellaneous	0	—	0	—
Sub-Total	**0**	—	**0**	—
Institutional				
Prison, Jail, Reformatory	0	—	0	—
Home for the Aged	0	—	0	—
Child Care	0	—	0	—
Hospital, Sanatorium, Clinic	0	—	0	—
Miscellaneous	0	—	0	—
Sub-Total	**0**	—	**0**	—
Residential				
One and Two Family Dwellings	20	54.1	4	22.2
Apartment	9	24.3	1	5.6
Rooming, Boarding House	0	—	0	—
Hotel	0	—	0	—
Motor Hotel	0	—	0	—
Dormitory	0	—	0	—
Mobile Home	3	8.1	0	—
Miscellaneous	0	—	0	—
Sub-Total	**32**	**86.5**	**5**	**27.8**
Business and Personal Service				
Office	0	—	0	—
Personal Service	0	—	0	—
Electronic Equipment	0	—	0	—
Miscellaneous	0	—	0	—
Sub-Total	**0**	—	**0**	—
Mercantile				
Food, Beverage Sale	0	—	0	—
Textile, Wearing Apparel Sale	0	—	0	—
Furniture, Appliance, Hardware Sales	0	—	0	—
Books, Newspapers, Drugs, Specialties	0	—	0	—
Recreation, Hobby Supplies	0	—	0	—
Repair Shop, Laundry, Dry Cleaner	0	—	0	—
Motor Vehicles, Boats, Sales and Service	0	—	0	—
Department, Variety Store	0	—	0	—
Miscellaneous	0	—	0	—
Sub-Total	**0**	—	**0**	—

PROPERTY CLASSIFICATION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Industrial Manufacturing Properties				
Chemicals, Petroleum, Paints, Plastics	0	—	0	—
Wood, Furniture, Paper, Printing	0	—	0	—
Metal, Metal Products, Electrical Equipment and Appliances	0	—	0	—
Food Processing	0	—	1	5.6
Beverage, Tobacco, Soap, Margarine	0	—	0	—
Textiles	0	—	0	—
Wearing Apparel, Footwear	0	—	0	—
Vehicles and Related Equipment	0	—	0	—
Miscellaneous	0	—	0	—
Sub-Total	**0**	—	**1**	**5.6**
Storage Properties				
Agricultural Products	1	2.7	0	—
Textiles, Fibres, Clothing	0	—	0	—
Processed Food, Beverage	0	—	0	—
Flammable Liquids, Gases, Petroleum Products	0	—	1	5.6
Wood, Furniture, Paper and Products	0	—	0	—
Chemicals, Plastics, Paints	0	—	0	—
Metal Products, Machinery, Electrical Appliance	0	—	0	—
Vehicle	0	—	1	5.6
Miscellaneous	0	—	0	—
Sub-Total	**1**	**2.7**	**2**	**11.2**
Special Property – Transportation Equipment				
Outdoor Property	1	2.7	0	—
Special Connecting Thoroughfares	0	—	0	—
Under Construction/Demolition: Vacant	0	—	0	—
Watercraft	0	—	0	—
Rail Transport Vehicle and Equipment	0	—	0	—
Ground Transport Vehicle	1	2.7	7	38.8
Aircraft	0	—	1	5.6
Special Vehicles	1	2.7	0	—
Other Special Property	0	—	0	—
Sub-Total	**3**	**8.1**	**8**	**44.4**
Miscellaneous Property				
Laboratories	0	—	0	—
Farm Facilities	1	2.7	0	—
Miscellaneous Outbuildings	0	—	0	—
Utility	0	—	2	11.1
Cement, Glass, Pottery Manufacturing	0	—	0	—
Mining, Quarrying	0	—	0	—
Communications	0	—	0	—
Nucleonics	0	—	0	—
Miscellaneous	0	—	0	—
Sub-Total	**1**	**2.7**	**2**	**11.1**
TOTAL	**37**	**100.0**	**18**	**100.1**

Commentary: Over 86% of fire deaths occurred in residential properties.

Injuries by Major Property Classifications 1985

PROPERTY CLASSIFICATION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Assembly					
Theatre, Studio, Auditorium	0	0	0	0	—
Amusement, Recreation Place	0	0	0	0	—
School, College, University	2	2	0	4	.8
Church, Funeral Parlour	0	3	0	3	.6
Clubs, Social, Sport	0	0	0	0	—
Museum, Art Gallery, Library	0	0	0	0	—
Food or Beverage Establishment	0	0	0	0	—
Passenger Terminal, Station	0	0	0	0	—
Miscellaneous	0	0	0	0	—
Sub-Total	**2**	**5**	**0**	**7**	**1.4**
Institutional					
Prison, Jail, Reformatory	0	0	0	0	—
Home for the Aged	0	0	1	1	.2
Child Care	0	0	0	0	—
Hospital, Sanatorium, Clinic	1	0	0	1	.2
Miscellaneous	0	0	0	0	—
Sub-Total	**1**	**0**	**1**	**2**	**.4**
Residential					
One and Two Family Dwellings	91	32	22	145	29.0
Apartment	69	23	5	97	19.4
Rooming, Boarding House	1	1	0	2	.4
Hotel	2	0	0	2	.4
Motor Hotel	1	0	0	1	.2
Dormitory	3	0	0	3	.6
Mobile Home	12	11	6	29	5.8
Miscellaneous	0	0	0	0	—
Sub-Total	**179**	**67**	**33**	**279**	**55.8**
Business and Personal Service					
Office	0	1	1	2	.4
Personal Service	1	0	0	1	.2
Electronic Equipment	0	0	0	0	—
Miscellaneous	0	0	0	0	—
Sub-Total	**1**	**1**	**1**	**3**	**.6**
Mercantile					
Food, Beverage Sale	1	0	0	1	.2
Textile, Wearing Apparel Sale	0	0	0	0	—
Furniture, Appliance, Hardware Sales	0	0	0	0	—
Books, Newspapers, Drugs, Specialties	0	0	0	0	—
Recreation, Hobby Supplies	0	0	0	0	—
Repair Shop, Laundry, Dry Cleaner	0	0	0	0	—
Motor Vehicles, Boats, Sales and Service	4	6	2	12	2.4
Department, Variety Store	1	0	0	1	.2
Miscellaneous	0	1	0	1	.2
Sub-Total	**6**	**7**	**2**	**15**	**3.0**

PROPERTY CLASSIFICATION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Industrial Manufacturing Properties					
Chemicals, Petroleum, Paints, Plastics	0	13	0	13	2.6
Wood, Furniture, Paper, Printing	3	0	0	3	.6
Metal, Metal Products, Electrical Equipment and Appliances	2	1	0	3	.6
Food Processing	11	2	1	14	2.8
Beverage, Tobacco, Soap, Margarine	0	0	0	0	—
Textiles	0	0	0	0	—
Wearing Apparel, Footwear	0	0	0	0	—
Vehicles and Related Equipment	0	0	0	0	—
Miscellaneous	15	0	0	15	3.0
Sub-Total	**31**	**16**	**1**	**48**	**9.6**
Storage Properties					
Agricultural Products	1	0	0	1	.2
Textiles, Fibres, Clothing	0	0	0	0	—
Processed Food, Beverage	0	0	0	0	—
Flammable Liquids, Gases, Petroleum Products	1	1	0	2	.4
Wood, Furniture, Paper and Products	4	0	1	5	1.0
Chemicals, Plastics, Paints	0	0	0	0	—
Metal Products, Machinery, Electrical Appliance	0	1	0	1	.2
Vehicle	10	5	3	18	3.6
Miscellaneous	0	6	0	6	1.2
Sub-Total	**16**	**13**	**4**	**33**	**6.6**
Special Property					
Outdoor Property	18	7	0	25	5.0
Special Connecting Thoroughfares	0	0	0	0	—
Under Construction/Demolition: Vacant	7	10	4	21	4.2
Watercraft	0	0	0	0	—
Rail Transport Vehicle and Equipment	0	0	0	0	—
Ground Transport Vehicle	21	10	4	35	7.0
Aircraft	0	0	0	0	—
Special Vehicles	3	2	1	6	1.2
Other Special Property	0	0	0	0	—
Sub-Total	**49**	**29**	**9**	**87**	**17.4**
Miscellaneous Property					
Laboratories	1	0	0	1	.2
Farm Facilities	1	3	0	4	.8
Miscellaneous Outbuildings	1	1	3	5	1.0
Utility	2	0	3	5	1.0
Cement, Glass, Pottery Manufacturing	0	0	0	0	—
Mining, Quarrying	2	0	9	11	2.2
Communications	0	0	0	0	—
Nucleonics	0	0	0	0	—
Miscellaneous	0	0	0	0	—
Sub-Total	**7**	**4**	**15**	**26**	**5.2**
TOTAL	**292**	**142**	**66**	**500**	**100.0**

Commentary: Over 55% of injuries occurred in residential properties.

Fire Deaths by Act or Omission 1985

ACT OR OMISSION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Incendiary				
Arson – for fraudulent purposes	0	–	0	–
Arson – for vengeful/spiteful purposes	0	–	0	–
Arson – for obscuring other crime	0	–	0	–
Arson – to satisfy compulsive desires (pyromania)	0	–	0	–
Suspected Arson	0	–	2	11.1
Riot, Civil Commotion, Charges Laid	0	–	0	–
Riot, Civil Commotion, No Charges Laid	0	–	0	–
Vandalism, Mischief, Charges Laid	0	–	0	–
Vandalism, Mischief, No Charges Laid	0	–	0	–
Incendiary, Unclassified	0	–	0	–
Sub-Total	**0**	–	**2**	**11.1**
Misuse of Source of Ignition				
Smoker's Material	6	16.2	0	–
Thawing	0	–	3	16.7
Inadequate Control of "Open" Fire	1	2.7	0	–
Child Playing With	9	24.3	0	–
Welding or Cutting Too Close To	0	–	1	5.5
Torch Too Close To	0	–	0	–
Misuse of Source of Ignition, Unclassified	0	–	0	–
Sub-Total	**16**	**43.2**	**4**	**22.2**
Misuse of Material Ignited				
Fuel Spilled Accidentally	0	–	0	–
Improper Fuelling Technique	0	–	0	–
Flammable Liquid to Kindle Fire	0	–	0	–
Cleaning, Washing Parts	0	–	0	–
Improper Container	0	–	0	–
Overheated Cooking Oil, Grease, Wax	4	10.8	0	–
Combustible Placed Too Close to Heat	0	–	0	–
Improper Storage	0	–	0	–
Misuse of Material Ignited, Unclassified	0	–	0	–
Sub-Total	**4**	**10.8**	**0**	–
Mechanical, Electrical Failure, Malfunction				
Part Failure, Leak, Break	0	–	2	11.1
Automatic Control Failure	0	–	0	–
Manual Control Failure	0	–	0	–
Electrical Short Circuit	0	–	0	–
Part Worn Out	1	2.7	0	–
Mechanical, Electrical Failure, Unclassified	2	5.4	0	–
Sub-Total	**3**	**8.1**	**2**	**11.1**

ACT OR OMISSION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Construction, Design or Installation Deficiency				
Design Deficiency	0	—	0	—
Construction Deficiency	0	—	1	5.5
Installed Too Close to Combustible	1	2.7	0	—
Other Installation Deficiency	0	—	0	—
Over Fusing	0	—	0	—
Suspected Faulty Connections/Aluminum Wiring	0	—	0	—
Suspected Faulty Connections/Copper Wiring	0	—	0	—
Construction, Design or Installation Deficiency, Unclassified	0	—	0	—
Sub-Total	**1**	**2.7**	**1**	**5.5**
Misuse of Equipment				
Overfuelling	0	—	0	—
Misuse of Equipment, Unclassified	0	—	0	—
Sub-Total	**0**	—	**0**	—
Human Failing				
Asleep	1	2.7	0	—
Temporary Loss of Judgement	0	—	0	—
Physical or Mental Disability	0	—	1	5.5
Accident	0	—	0	—
Suspected Impairment by Alcohol, Drugs, Medication	1	2.7	0	—
Asleep – Suspected Use of Alcohol, Drugs, Medication	3	8.1	0	—
Ignorance of Hazard	1	2.7	1	5.5
Distracted, Preoccupied	1	2.7	0	—
Human Failing, Unclassified	0	—	1	5.5
Sub-Total	**7**	**18.9**	**3**	**16.7**
Vehicle Accident				
Automobile	0	—	1	5.5
Industrial Truck	0	—	2	11.1
Other Road Vehicle	0	—	0	—
Rail Vehicle	0	—	0	—
Watercraft	0	—	0	—
Aircraft	0	—	1	5.5
Vehicle Accident, Unclassified	0	—	0	—
Sub-Total	**0**	—	**4**	**22.2**
Miscellaneous				
Miscellaneous, Unclassified	0	—	0	—
Act or Omission – Cannot be Determined	6	16.2	2	11.1
Sub-Total	**6**	**16.2**	**2**	**11.1**
TOTAL	**37**	**99.9**	**18**	**99.9**

Commentary: Child playing with fire and smokers' materials were the leading known causes of fatal fires.

Injuries by Act or Omission 1985

ACT OR OMISSION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Incendiary					
Arson – for fraudulent purposes	0	0	0	0	—
Arson – for vengeful/spiteful purposes	1	0	0	1	.2
Arson – for obscuring other crime	2	2	0	4	.8
Arson – to satisfy compulsive desires (pyromania)	1	0	0	1	.2
Suspected Arson	9	3	1	13	2.6
Riot, Civil Commotion, Charges Laid	0	0	0	0	—
Riot, Civil Commotion, No Charges Laid	0	0	0	0	—
Vandalism, Mischief, Charges Laid	3	0	1	4	.8
Vandalism, Mischief, No Charges Laid	6	2	0	8	1.6
Incendiary, Unclassified	0	10	1	11	2.2
Sub-Total	**22**	**17**	**3**	**42**	**8.4**
Misuse of Source of Ignition					
Smoker's Material	16	14	1	31	6.2
Thawing	3	1	0	4	.8
Inadequate Control of "Open" Fire	5	1	0	6	1.2
Child Playing With	13	14	2	29	5.8
Welding or Cutting Too Close To	7	4	1	12	2.4
Torch Too Close To	4	2	0	6	1.2
Misuse of Source of Ignition, Unclassified	1	0	0	1	.2
Sub-Total	**49**	**36**	**4**	**89**	**17.8**
Misuse of Material Ignited					
Fuel Spilled Accidentally	6	2	3	11	2.2
Improper Fuelling Technique	3	7	2	12	2.4
Flammable Liquid to Kindle Fire	1	1	1	3	.6
Cleaning, Washing Parts	3	2	0	5	1.0
Improper Container	2	0	0	2	.4
Overheated Cooking Oil, Grease, Wax	33	9	4	46	9.2
Combustible Placed Too Close to Heat	3	3	0	6	1.2
Improper Storage	4	2	0	6	1.2
Misuse of Material Ignited, Unclassified	14	0	2	16	3.2
Sub-Total	**69**	**26**	**12**	**107**	**21.4**
Mechanical, Electrical Failure, Malfunction					
Part Failure, Leak, Break	15	11	14	40	8.0
Automatic Control Failure	3	1	0	4	.8
Manual Control Failure	0	0	0	0	—
Electrical Short Circuit	16	8	4	28	5.6
Part Worn Out	3	2	0	5	1.0
Mechanical, Electrical Failure, Unclassified	10	2	5	17	3.4
Sub-Total	**47**	**24**	**23**	**94**	**18.8**

ACT OR OMISSION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Construction, Design or Installation Deficiency					
Design Deficiency	0	0	0	0	—
Construction Deficiency	1	0	0	1	.2
Installed Too Close to Combustible	1	0	0	1	.2
Other Installation Deficiency	3	0	0	3	.6
Over Fusing	0	0	0	0	—
Suspected Faulty Connections/Aluminum Wiring	0	0	0	0	—
Suspected Faulty Connections/Copper Wiring	0	0	0	0	—
Construction, Design or Installation Deficiency, Unclassified	0	0	0	0	—
Sub-Total	**5**	**0**	**0**	**5**	**1.0**
Misuse of Equipment					
Overfuelling	6	3	0	9	1.8
Misuse of Equipment, Unclassified	2	3	0	5	1.0
Sub-Total	**8**	**6**	**0**	**14**	**2.8**
Human Failing					
Asleep	12	2	0	14	2.8
Temporary Loss of Judgement	0	0	0	0	—
Physical or Mental Disability	2	0	0	2	.4
Accident	2	0	2	4	.8
Suspected Impairment by Alcohol, Drugs, Medication	7	1	1	9	1.8
Asleep – Suspected Use of Alcohol, Drugs, Medication	6	3	3	12	2.4
Ignorance of Hazard	18	7	3	28	5.6
Distracted, Preoccupied	6	1	0	7	1.4
Human Failing, Unclassified	0	1	1	2	.4
Sub-Total	**53**	**15**	**10**	**78**	**15.6**
Vehicle Accident					
Automobile	0	1	0	1	.2
Industrial Truck	0	0	0	0	—
Other Road Vehicle	0	0	1	1	.2
Rail Vehicle	0	0	0	0	—
Watercraft	0	0	0	0	—
Aircraft	0	0	0	0	—
Vehicle Accident, Unclassified	0	0	1	1	.2
Sub-Total	**0**	**1**	**2**	**3**	**.6**
Miscellaneous					
Miscellaneous, Unclassified	1	0	7	8	1.6
Act or Omission – Cannot be Determined	38	17	5	60	12.0
Sub-Total	**39**	**17**	**12**	**68**	**13.6**
TOTAL	**292**	**142**	**66**	**500**	**100.0**

Commentary: Overheated cooking oil was the leading cause of fires where injuries occurred, followed by part failure, leak or break.

Casualties in Residential Properties 1985

Casualties Related to Initial Detection of the Fire

INITIAL DETECTION	DEATHS	INJURIES
Smoke Alarm/Detector	2	24
Heat Alarm/Detector	0	4
Automatic Systems	0	0
Visual Sighting	30	248
Unclassified/Unknown	0	3
TOTAL	32	279

Commentary: There were only two fatalities in residential fires where the fires were initially detected by smoke alarms or smoke detectors.

Casualties by Smoke Alarm Activation

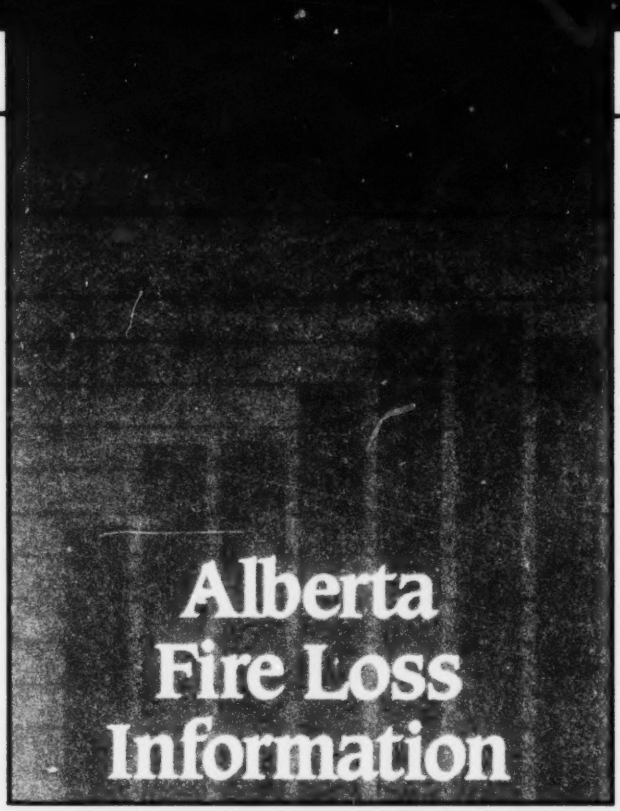
SMOKE ALARM ACTIVATION	DEATHS	INJURIES
Activated	4	91
Didn't Activate	3	56
Unknown	3	12

Commentary: The three fires where the smoke alarms activated resulted in four fatalities; however, four other lives were saved.

In just over 66% of the fatal fires where the smoke alarm didn't activate, it was because the alarm contained no battery.

Casualties by Method of Control and Extinguishment

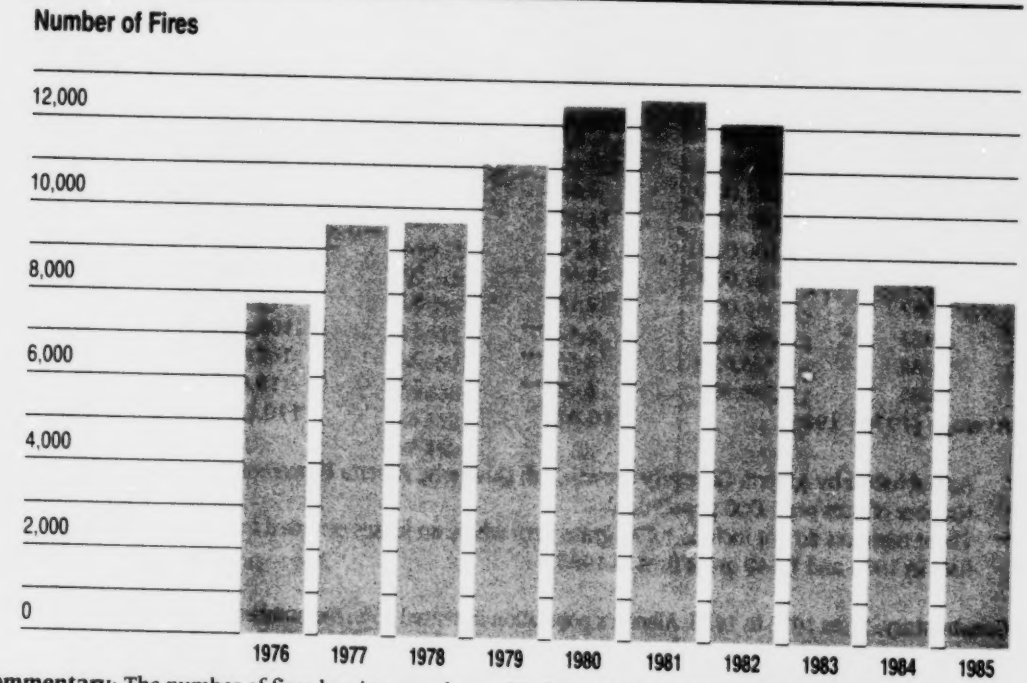
METHOD OF CONTROL AND EXTINGUISHMENT	DEATHS	INJURIES
Hand Fire Extinguisher	1	18
Standpipe System	3	11
Makeshift Firefighting Aid	1	38
Fire Department – Water	20	170
Fire Department – Other Than Water	0	0
Sprinkler System	0	0
Fixed System Other Than Sprinklers	0	0
Burned Out	0	8
Miscellaneous	7	34
TOTAL	32	279



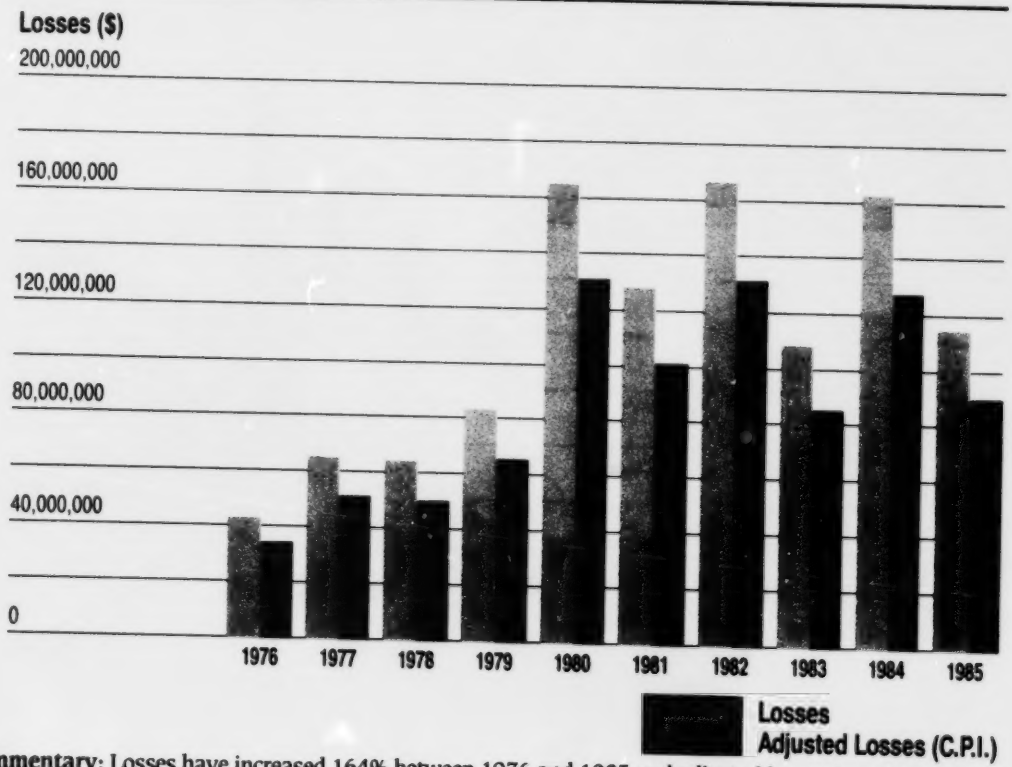
Alberta Fire Loss Information

Section Two

Fires and Losses
1976-1985



Commentary: The number of fires has increased over 3% from 1976 to 1985. Grass fires were not included in 1983, 1984 and 1985 as they were in previous years. If they had been included, fires in 1983 would have been 10,210, in 1984 would have been 10,193 and in 1985 would have been 9,200.



Commentary: Losses have increased 164% between 1976 and 1985 and adjusted losses have increased 31%.

Fire Rates and Per Capita Losses 1976-1985

YEAR	POPULATION*	NO. OF FIRES	FIRE RATE**	LOSS ESTIMATE	LOSS PER CAPITA
1976	1,866,000	7,773	4.2	43,562,105	23.35
1977	1,941,000	9,607	4.9	65,517,259	33.75
1978	2,011,000	9,683	4.8	65,264,664	32.45
1979	2,085,000	11,162	5.4	83,067,224	39.84
1980	2,180,000	12,564	5.8	167,330,779	76.75
1981	2,267,000	12,660	5.6	128,969,303	56.88
1982	2,345,000	12,189	5.2	168,680,055	71.93
1983	2,366,000	8,479***	3.6	108,633,274	45.91
1984	2,358,000	8,557***	3.6	162,484,605	68.90
1985	2,338,000	8,051***	3.4	115,152,713	49.25
Average (1976 - 1985)		**10,072**		**110,866,198**	

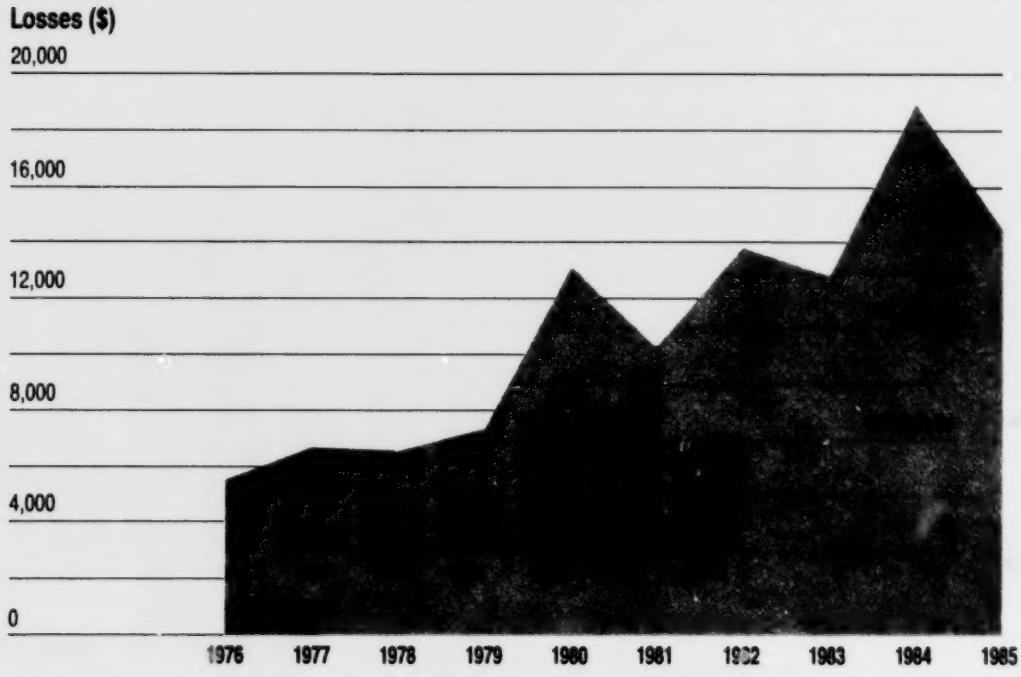
* As published by Alberta Quarterly Growth, 4th Quarterly, Alberta Bureau of Statistics

** Number of fires per 1,000 population

*** These numbers do not include 1,797 grass fires where no losses occurred in 1983, 1,626 grass fires in 1984 and 1,149 grass fires in 1985.

Commentary: From 1976 to 1985, Alberta's population increased 25%, the number of fires increased over 3%, the loss estimate increased 164%, and the loss per capita increased 110.9%. Between 1984 and 1985 there was less than 5% decrease in the number of fires.

Average Loss Per Fire 1976-1985



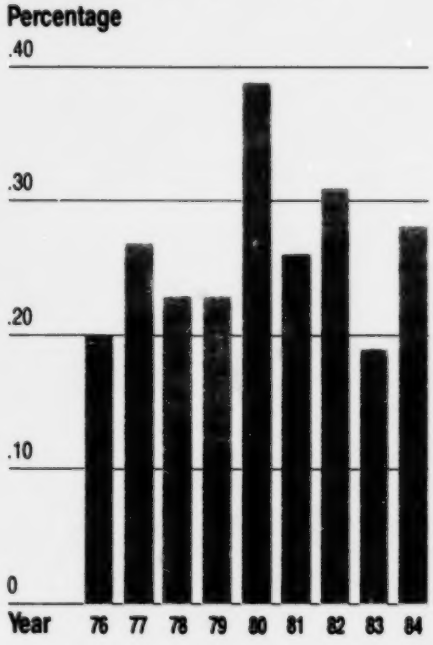
Commentary: There is a 155% increase in the average loss per fire from 1976 to 1985.

Fire Losses Related to Economic Indices 1976-1985

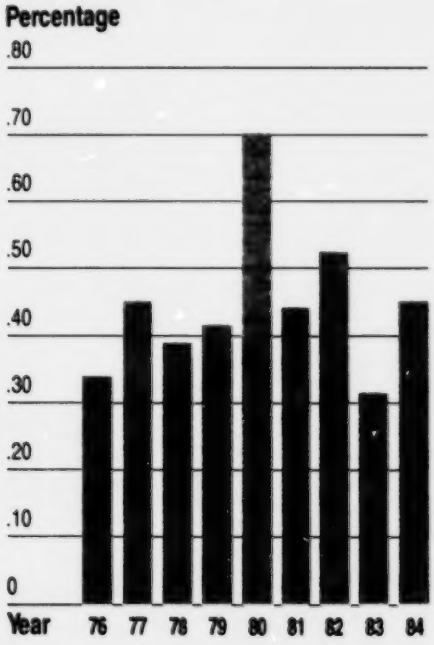
YEAR	FIRE LOSSES (IN $000,000'S)	Gross Domestic Product		Personal Income	
		GROSS DOMESTIC PRODUCT* (IN $000,000'S)	% OF GROSS DOMESTIC PRODUCT	PERSONAL INCOME* (IN $000,000'S)	% OF PERSONAL INCOME
1976	43.6	21,576	.20	12,659	.34
1977	65.5	24,432	.27	14,435	.45
1978	65.3	28,315	.23	16,610	.39
1979	83.0	35,045	.23	19,865	.41
1980	167.3	42,021	.39	23,658	.70
1981	128.9	49,037	.26	29,170	.44
1982	168.6	52,838	.31	33,054	.51
1983	108.6	54,812	.19	34,442	.31
1984	162.4	57,458	.28	35,840	.45
1985	115.1	N/A	—	N/A	—

* Alberta Economic Accounts, 1984.

FIRE LOSSES AS A PERCENTAGE OF GROSS DOMESTIC PRODUCT

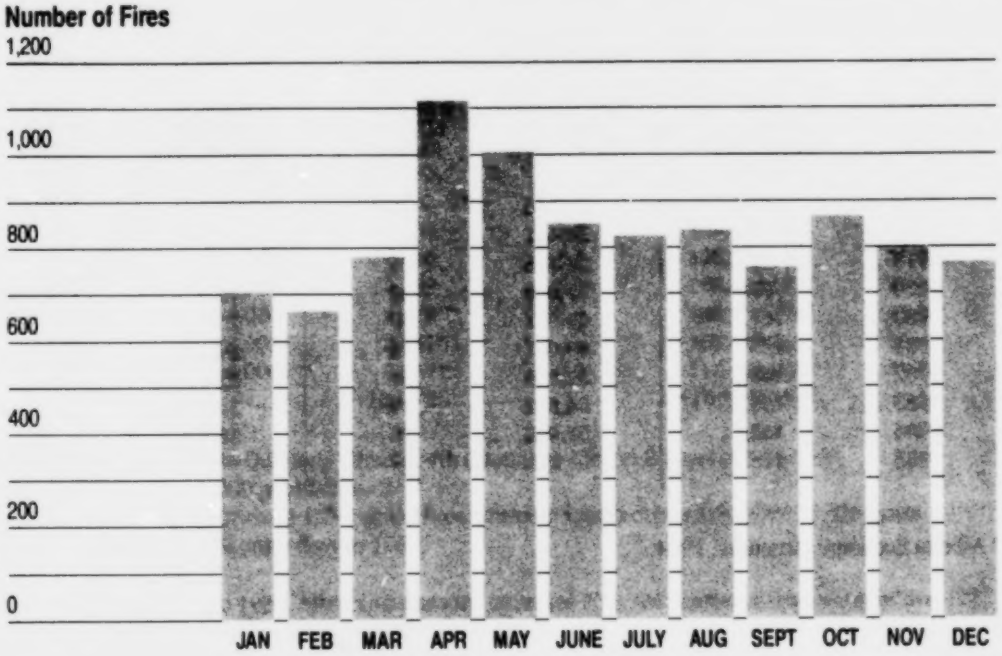


FIRE LOSSES AS A PERCENTAGE OF PERSONAL INCOME

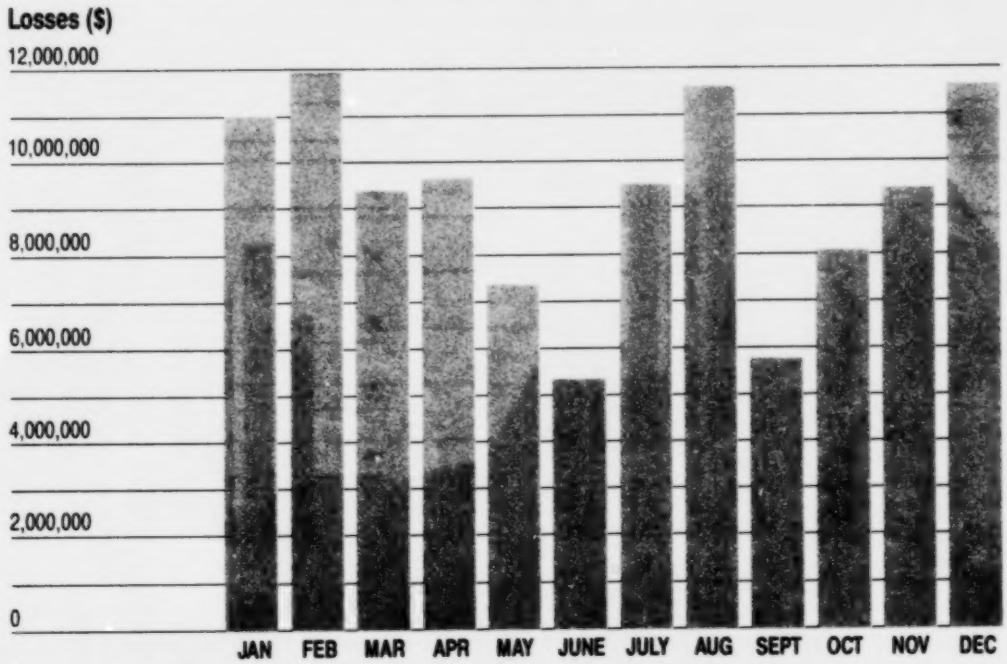


Commentary: As a percentage of gross domestic product, fire losses have increased 40% between 1976 and 1984. As a percentage of personal income, fire losses increased 32% during the same time period.

Average Number of Fires by Month
1976-1985

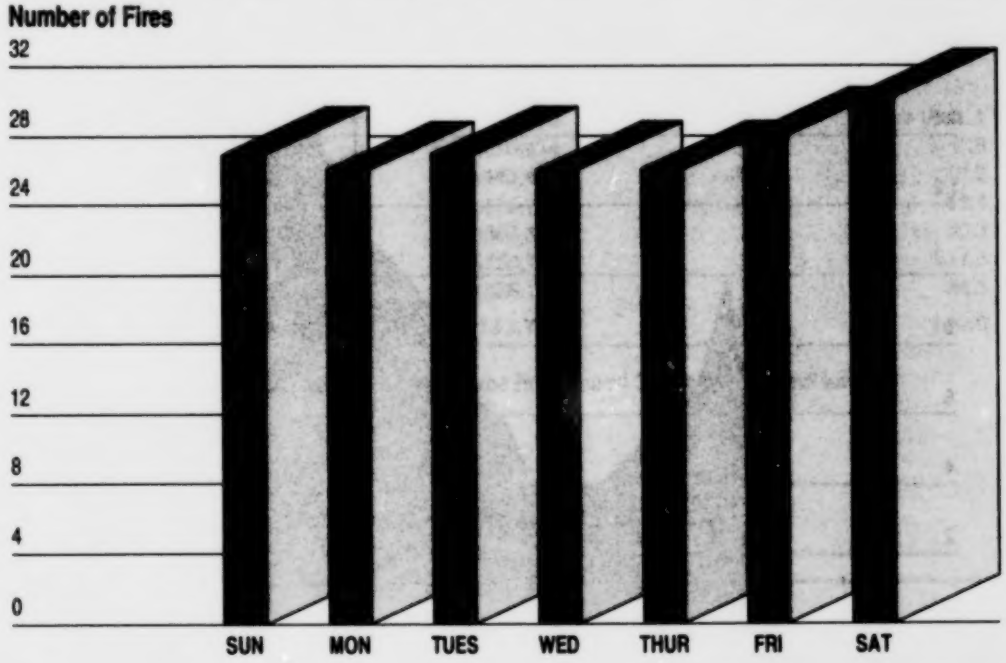


Average Fire Loss by Month
1976-1985

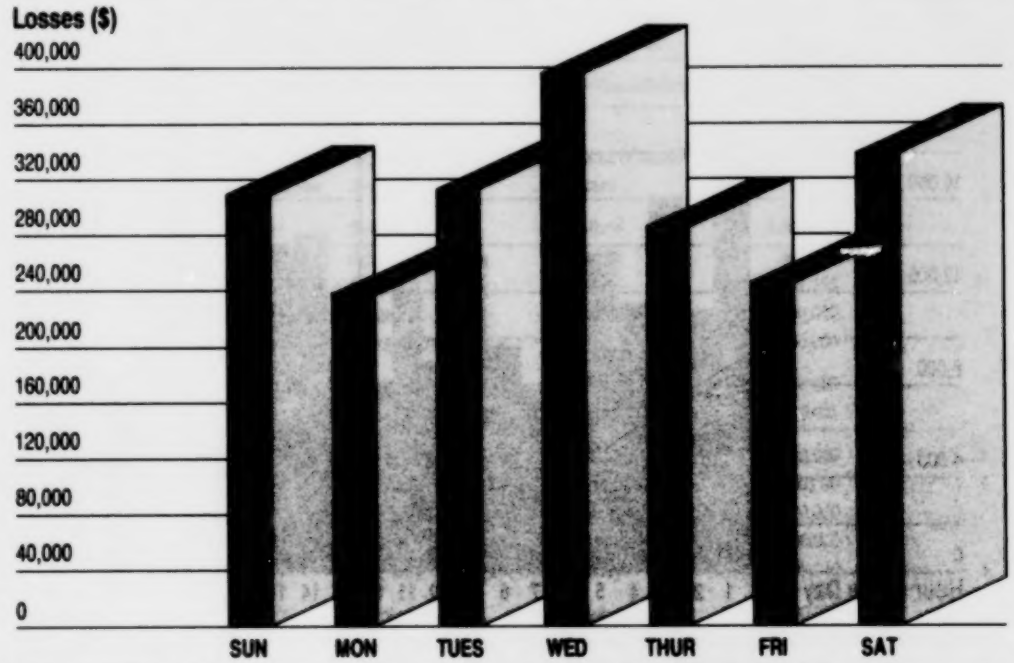


Commentary: While the average number of fires was greatest in the months of April and May, average losses were highest in February and January. The highest average loss per fire per month ($18,065) was in February.

Average Number of Fires by Day of Week 1976-1985

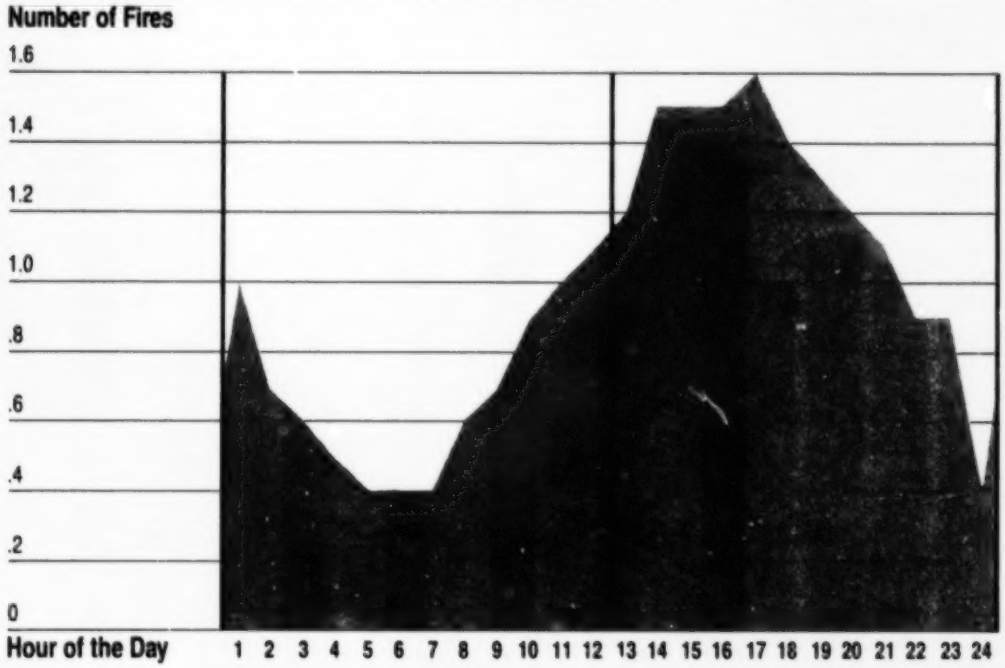


Average Fire Loss by Day of Week 1976-1985

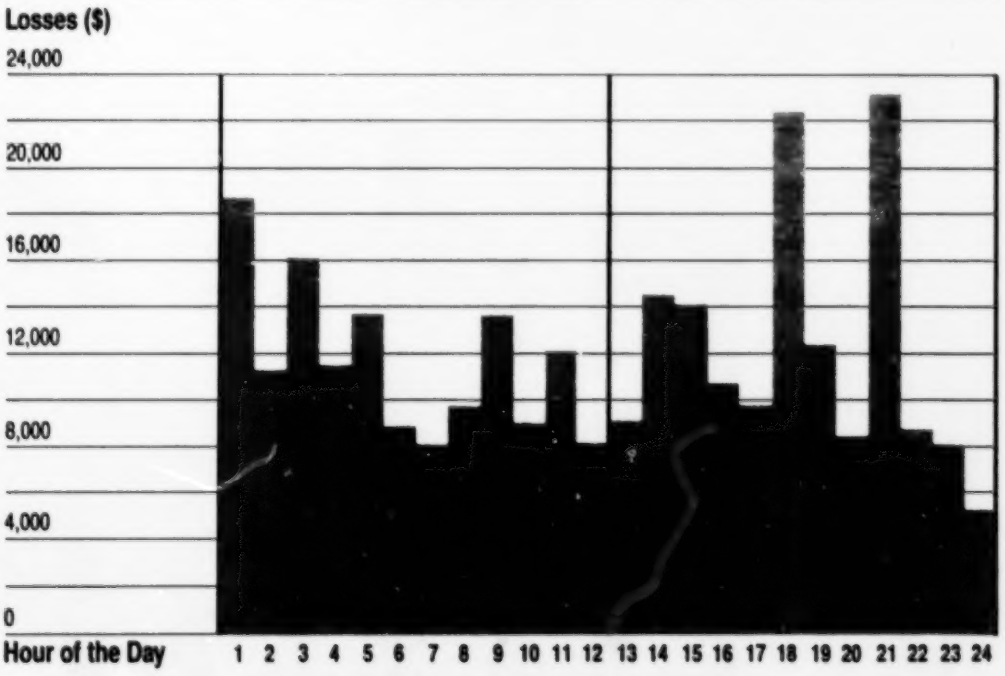


Commentary: From 1976 to 1985, the highest average number of fires on any day of the week occurred on Saturday. Wednesday had higher losses than other days, with Friday having the lowest losses.

Average Number of Fires by Hour of Day 1976-1985



Average Fire Loss by Hour of Day 1976-1985



Commentary: While the greatest number of fires occurred between the hours of 1400 (2:00 p.m.) and 1800 (6:00 p.m.), the greatest losses generally occurred at 1800 (6:00 p.m.) and 2100 (9:00 p.m.). The greatest average loss was sustained at 0500 (5:00 a.m.) with an average loss of $30,527.

Fires by Loss Category - 1985

LOSS CATEGORY	NUMBER	LOSSES	PERCENTAGE NUMBER	PERCENTAGE LOSSES
$1-99	1,161	34,278	14.4	less than .1
100-999	2,588	1,060,934	32.1	.9
1,000-9,999	2,937	9,443,466	36.5	8.2
10,000-49,999	953	21,175,759	11.8	18.4
50,000-249,999	362	34,882,382	4.5	30.3
250,000-499,999	25	8,730,756	.3	7.6
500,000 and over	25	39,825,138	.3	34.6
TOTAL	**8,051**	**115,152,713**	**99.9**	**100.0**

Commentary: Just under one-half of one per cent of the fires caused 34.6% of the 1985 losses.

1985 Large Loss Fires
($500,000 and over)

PROPERTY CLASS	DATE	LOCATION	OCCUPANCY	ACT OR OMISSION	LOSSES	DEATHS	INJURIES
Assembly	Mar 21	M.D. #44	Elementary School	unkown	1,200,959		
	May 1	Calgary	Church	incendiary	1,419,024		3
	Sept 27	Edmonton	Nightclub	unknown	500,000		
	Nov 30	Stettler	High School	incendiary	5,009,392		
	Dec 10	High River	Restaurant	incendiary	540,000		
Residential	May 2	Lacombe	Hotel	unknown	2,220,000		1
	Oct 13	Wetaskiwin	Hotel	unknown	1,547,512		
	Dec 6	M.D. #48	Farm Dwelling	auto. control fail.	500,000		
Business & Personal Service	July 24	High Prairie	Provincial Govt. Bldg.	installation deficiency	3,658,344		
Mercantile	Feb 20	Taber	Supermarket	ignorance of hazard	566,000		
	July 15	Medicine Hat	Steel Sales	unknown	526,583		
Industrial Manufacturing	Jan 6	Cty #11	Saw Mill	incendiary	5,000,000		
	Feb 11	Cty #20	Petroleum Refinery	part failure	500,000		
	Mar 14	Medicine Hat	Grain Mill	unknown	3,801,348	1	11
	Nov 17	Medicine Hat	Hazardous Chem.	part worn out	1,500,000		
	Dec 5	I.D. #17	Petroleum Refinery	part failure	750,000		
Storage	May 22	Spruce Grove	Lumberyard	unknown	500,000		
	Dec 2	Cty #27	Grain Elevator	unknown	740,036		
Special	May 1	Calgary	Vacant Property	incendiary	540,000		1
	Aug 9	Calgary	Bldg. under maj. renov.	incendiary	500,000		4
	Oct 8	Cty #24	Bldg. under maj. renov.	welding/cutting too close	1,500,000		
	Oct 23	Cty #31	Helicopter	aircraft accident	5,000,000		
	Dec 15	Calgary	Bldg. under maj. renov.	incendiary	705,940		3
Miscellaneous	Feb 19	Cty #22	gas pipeline	part failure	500,000	2	3
	Aug 21	Cty #2	gas manufacturing	unknown	600,000		

Commentary: Incendiary fires were the cause of over 34% of the large loss losses.

Fires by Major Property Classification 1985

PROPERTY CLASSIFICATION	NUMBER OF FIRES	% OF TOTAL	LOSSES	% OF TOTAL
Assembly				
Theatre, Studio, Auditorium	3	—	20,281	—
Amusement, Recreation Place	13	.2	114,311	.1
School, College, University	50	.6	7,229,901	6.3
Church, Funeral Parlour	5	.1	1,520,574	1.3
Clubs, Social, Sport	10	.1	30,532	—
Museum, Art Gallery, Library	3	—	52,147	—
Food or Beverage Establishment	69	.9	2,618,276	2.3
Passenger Terminal, Station	2	—	250	—
Miscellaneous	0	—	0	—
Sub-Total	**155**	**1.9**	**11,586,272**	**10.1**
Institutional				
Prison, Jail, Reformatory	5	.1	33,289	—
Home for the Aged	15	.2	19,870	—
Child Care	2	—	1,272	—
Hospital, Sanatorium, Clinic	26	.3	43,098	—
Miscellaneous	0	—	0	—
Sub-Total	**48**	**.6**	**97,529**	**.1**
Residential				
One and Two Family Dwellings	1,699	21.1	22,931,753	19.9
Apartment	508	6.3	3,092,601	2.7
Rooming, Boarding House	8	.1	14,365	—
Hotel	43	.5	5,066,889	4.4
Motor Hotel	18	.2	99,365	.1
Dormitory	22	.3	641,498	.6
Mobile Home	297	3.7	4,223,663	3.7
Miscellaneous	4	.1	925	—
Sub-Total	**2,599**	**32.3**	**36,071,059**	**31.3**
Business and Personal Service				
Office	45	.6	4,186,042	3.6
Personal Service	5	.1	32,810	—
Electronic Equipment	0	—	0	—
Miscellaneous	0	—	0	—
Sub-Total	**50**	**.7**	**4,218,852**	**3.7**
Mercantile				
Food, Beverage Sale	17	.2	1,498,232	1.3
Textile, Wearing Apparel Sale	7	.1	164,722	.1
Furniture, Appliance, Hardware Sales	7	.1	118,304	.1
Books, Newspapers, Drugs, Specialties	11	.1	228,866	.2
Recreation, Hobby Supplies	6	.1	37,615	—
Repair Shop, Laundry, Dry Cleaner	20	.2	449,400	.4
Motor Vehicles, Boats, Sales and Service	68	.8	2,470,767	2.1
Department, Variety Store	18	.2	472,474	.4
Miscellaneous	4	.1	828,584	.7
Sub-Total	**158**	**2.0**	**6,268,964**	**5.4**

PROPERTY CLASSIFICATION	NUMBER OF FIRES	% OF TOTAL	LOSSES	% OF TOTAL
Industrial Manufacturing Properties				
Chemicals, Petroleum, Paints, Plastics	30	.4	4,150,826	3.6
Wood, Furniture, Paper, Printing	30	.4	6,305,868	5.5
Metal, Metal Products, Electrical Equipment and Appliances	29	.4	653,106	.6
Food Processing	23	.3	4,659,926	4.0
Beverage, Tobacco, Soap, Margarine	1	—	55,000	—
Textiles	0	—	0	—
Wearing Apparel, Footwear	0	—	0	—
Vehicles and Related Equipment	0	—	0	—
Miscellaneous	8	.1	226,071	.2
Sub-Total	**121**	**1.5**	**16,050,797**	**13.9**
Storage Properties				
Agricultural Products	49	.6	1,469,037	1.3
Textiles, Fibres, Clothing	0	—	0	—
Processed Food, Beverage	1	—	200	—
Flammable Liquids, Gases, Petroleum Products	19	.2	222,287	.2
Wood, Furniture, Paper and Products	33	.4	1,021,326	.9
Chemicals, Plastics, Paints	3	—	13,810	—
Metal Products, Machinery, Electrical Appliance	11	.1	86,469	.1
Vehicle	241	3.0	2,390,077	2.1
Miscellaneous	23	.3	1,363,026	1.2
Sub-Total	**380**	**4.7**	**6,566,232**	**5.7**
Special Property — Transportation Equipment				
Outdoor Property	841	10.4	121,614	.1
Special Connecting Thoroughfares	5	.1	50,651	—
Under Construction/Demolition: Vacant	185	2.3	5,579,441	4.8
Watercraft	16	.2	115,403	.1
Rail Transport Vehicle and Equipment	16	.2	452,950	.4
Ground Transport Vehicle	2,505	31.1	7,915,698	6.9
Aircraft	3	—	5,011,685	4.4
Special Vehicles	332	4.1	5,992,166	5.2
Other Special Property	0	—	0	—
Sub-Total	**3,903**	**48.5**	**25,239,608**	**21.9**
Miscellaneous Property				
Laboratories	2	—	250	—
Farm Facilities	278	3.5	3,477,926	3.0
Miscellaneous Outbuildings	183	2.3	1,135,674	1.0
Utility	95	1.2	1,380,067	1.2
Cement, Glass, Pottery Manufacturing	3	—	6,404	—
Mining, Quarrying	45	.6	2,952,332	2.6
Communications	1	—	150	—
Nucleonics	0	—	0	—
Miscellaneous	30	.4	100,597	.1
Sub-Total	**637**	**7.9**	**9,053,400**	**7.9**
TOTAL	**8,051**	**100.1**	**115,152,713**	**100.0**

Commentary: While the number of fires was greatest in the 'special' classification (notably vehicles) with 48%, losses were greatest in residential properties with 32%.

Property Losses Related to Area of Origin 1985

PROPERTY CLASSIFICATION	Means of Egress		Assembly Area		Function Area		Storage Area	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	11	142,028	15	3,014,044	73	7,874,392	15	335,766
Institutional	1	300	6	11,301	29	76,551	2	733
Residential	84	606,048	359	4,992,419	1,314	12,363,906	107	2,549,090
Business	6	8,102	1	1,387	13	246,160	9	148,537
Mercantile	4	125,231	12	173,513	19	1,146,494	15	957,071
Manufacturing	0	0	0	0	41	3,999,814	19	4,622,901
Storage	1	1,000	1	3,539	2	22,049	155	2,419,121
Special	11	141,254	5	13,521	40	2,559,120	24	464,872
Miscellaneous	1	7,000	0	0	24	1,236,773	130	2,235,358
TOTAL	119	1,030,963	299	8,209,724	1,555	29,525,259	476	13,733,449

PROPERTY CLASSIFICATION	Service Facilities		Service and Equipment Area		Structural Area		Vehicle Area	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	5	35,601	11	86,804	22	83,459	1	6,578
Institutional	1	1	4	3,638	5	5,005	0	0
Residential	92	648,154	103	4,188,534	392	6,340,251	35	288,724
Business	2	1,030	7	142,224	11	3,667,412	0	0
Mercantile	4	1,800	46	2,162,043	37	696,787	4	138,161
Manufacturing	4	29,050	28	6,631,163	17	61,634	1	17,346
Storage	2	12,000	13	1,812,712	125	1,109,968	20	193,047
Special	1	3,000	7	90,009	69	1,285,922	2,871	19,481,741
Miscellaneous	5	642,701	57	2,071,454	185	1,331,953	21	281,556
TOTAL	116	1,373,337	276	17,188,581	863	14,582,391	2,953	20,407,153

PROPERTY CLASSIFICATION	Outside Area		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	1	1,100	1	6,500	155	11,586,272
Institutional	0	0	0	0	48	97,529
Residential	45	653,062	68	3,440,871	2,599	36,071,059
Business	0	0	1	4,000	50	4,218,852
Mercantile	10	39,706	7	828,158	158	6,268,964
Manufacturing	4	12,500	7	121,389	121	16,050,797
Storage	55	955,185	6	37,611	380	6,566,232
Special	849	189,434	26	1,010,735	3,903	25,239,608
Miscellaneous	189	1,037,412	25	209,193	637	9,053,400
TOTAL	1,153	2,888,399	141	5,658,457	8,051	115,152,713

Commentary: For all types of occupancies, fires starting in service and equipment areas caused an average $62,277 loss. The next highest average loss, $28,851, occurred when fires started in storage areas.

Property Losses Related to Act or Omission 1985

PROPERTY CLASSIFICATION	Incendiary Fires		Misuse of Source		Misuse of Material		Mechanical, Electrical Failure	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	52	8,806,737	30	324,300	16	247,091	28	348,912
Institutional	5	35,722	10	11,340	4	33,060	6	8,909
Residential	186	2,787,365	521	5,398,926	532	3,092,012	463	7,689,454
Business	12	275,542	15	82,959	2	4,230	14	44,142
Mercantile	26	1,285,452	27	506,164	20	860,189	33	703,979
Manufacturing	5	5,238,001	28	1,152,492	9	495,096	39	3,480,582
Storage	67	563,932	110	1,161,143	53	1,114,479	53	720,496
Special	333	3,442,915	671	2,684,118	111	402,711	1,916	7,475,310
Miscellaneous	39	333,433	189	1,124,250	25	106,107	144	2,905,418
TOTAL	725	22,769,069	1,601	12,445,692	772	6,354,975	2,696	23,377,202

PROPERTY CLASSIFICATION	Design Deficiency		Misuse of Equipment		Human Failing		Vehicle Accident	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	4	44,988	1	10,000	15	78,812	0	0
Institutional	2	550	0	0	20	6,448	0	0
Residential	108	1,475,625	32	824,075	522	3,764,793	0	0
Business	1	3,658,344	0	0	3	148,534	0	0
Mercantile	3	34,827	2	1,542	18	814,893	1	15,000
Manufacturing	2	209,000	2	415,018	12	268,324	0	0
Storage	10	245,958	6	417,380	14	73,969	0	0
Special	29	160,794	14	166,140	112	1,203,308	83	6,563,289
Miscellaneous	11	333,701	1	500	23	390,740	1	7,040
TOTAL	170	6,163,787	58	1,834,655	739	6,749,821	85	6,585,329

PROPERTY CLASSIFICATION	Miscellaneous		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	2	10,429	7	1,715,033	155	11,586,272
Institutional	1	1,500	0	0	48	97,529
Residential	35	258,806	200	10,780,003	2,599	36,071,059
Business	1	1	2	5,100	50	4,218,852
Mercantile	2	501	26	2,046,417	158	6,268,964
Manufacturing	3	155,344	21	4,636,940	121	16,050,797
Storage	17	195,263	50	2,073,612	380	6,566,232
Special	73	314,866	561	2,826,157	3,903	25,239,608
Miscellaneous	61	380,747	143	3,471,464	637	9,053,400
TOTAL	195	1,317,457	1,010	27,554,726	8,051	115,152,713

Commentary: Mechanical and electrical failures caused 33% of all fires and 20% of the losses. Misuse of source of ignition caused 20% of all fires and 10% of all property losses. The average loss in an incendiary fire was $31,405.

Property Losses Related to Source of Ignition 1985

PROPERTY CLASSIFICATION	Cooking Equipment		Heating Equipment		Appliances and Equipment		Electrical Distribution Equipment	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	33	173,037	12	89,077	6	24,177	8	255,854
Institutional	7	6,064	1	100	4	5,551	3	33,005
Residential	759	3,601,522	392	5,494,079	171	1,668,760	140	2,902,296
Business	2	4,230	7	142,045	4	3,672,578	6	35,897
Mercantile	3	6,128	17	586,147	10	238,507	20	999,220
Manufacturing	5	30,977	12	954,906	6	124,830	6	114,527
Storage	6	3,285	45	1,148,707	8	51,385	24	347,370
Special	40	49,569	49	506,317	45	305,973	876	3,491,356
Miscellaneous	2	1,150	32	686,050	8	100,441	63	847,562
TOTAL	857	3,875,962	567	9,607,428	262	6,192,202	1,146	9,027,087

PROPERTY CLASSIFICATION	Other Electrical Equipment		Smoker's Material and "Open" Flames		Exposure		Miscellaneous	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	2	281	63	7,723,102	6	53,920	4	137,757
Institutional	0	0	30	50,321	2	2,000	1	488
Residential	58	701,256	747	7,560,727	97	1,159,540	43	298,428
Business	0	0	23	298,884	4	6,117	1	1
Mercantile	8	230,983	41	900,842	18	241,205	18	510,447
Manufacturing	6	130,510	31	1,720,217	7	428,108	28	2,580,826
Storage	5	16,872	108	1,715,605	98	1,092,558	30	385,071
Special	26	67,932	820	3,031,915	321	1,462,759	1,023	6,315,260
Miscellaneous	35	327,906	101	690,303	213	1,164,247	75	1,753,384
TOTAL	140	1,475,740	1,964	23,691,916	766	5,610,454	1,223	11,981,662

PROPERTY CLASSIFICATION	Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	21	3,129,067	155	11,586,272
Institutional	0	0	48	97,529
Residential	192	12,684,451	2,599	36,071,059
Business	3	59,100	50	4,218,852
Mercantile	23	2,555,485	158	6,268,964
Manufacturing	20	9,965,896	121	16,050,797
Storage	56	1,805,379	380	6,566,232
Special	703	10,008,527	3,903	25,239,608
Miscellaneous	108	3,482,357	637	9,053,400
TOTAL	1,126	43,690,262	8,051	115,152,713

Commentary: Smoker's material and open flames were the source of ignition for 24% of the fires and 20% of the losses. Where a source of ignition was identified, the highest average loss of $23,634 was in fires where the source was appliances and equipment. The next highest average loss, $16,944, was in fires where heating equipment was the source of ignition. In residential properties, the highest average loss, $20,730, was in fires where the source of ignition was electrical distribution equipment.

Property Losses Related to Fuel or Energy 1985

PROPERTY CLASSIFICATION	Coal or Wood etc.		Fuel Oil		Gasoline		Natural Gas or Other Fuel Gases	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	1	10,000	0	0	0	0	39	811,809
Institutional	1	50	0	0	0	0	7	6,201
Residential	272	3,201,614	25	289,370	13	144,908	240	3,543,148
Business	1	3,658,344	0	0	0	0	6	137,121
Mercantile	3	160,744	0	0	5	314,005	29	466,150
Manufacturing	6	140,110	2	513,000	0	0	37	3,621,888
Storage	20	100,728	3	39,301	9	45,379	45	1,525,571
Special	35	92,338	48	1,267,388	879	4,336,877	162	1,112,306
Miscellaneous	20	240,220	5	142,934	20	758,396	34	870,539
TOTAL	359	7,604,148	83	2,225,993	926	5,599,565	599	12,094,733

PROPERTY CLASSIFICATION	Smoker's Material		Electricity		Lightning		Exposure	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	50	2,153,298	31	303,096	0	0	6	53,920
Institutional	27	47,470	9	41,019	0	0	2	2,000
Residential	623	6,092,320	1,052	8,190,466	6	52,446	95	1,158,336
Business	21	297,384	14	60,785	0	0	4	6,117
Mercantile	22	456,897	41	1,486,810	0	0	18	241,205
Manufacturing	9	471,249	20	448,443	0	0	7	428,108
Storage	73	333,900	51	1,092,544	2	136,700	98	1,092,558
Special	700	2,613,773	965	3,881,586	2	3,100	314	1,443,278
Miscellaneous	64	381,663	117	1,277,141	13	38,396	212	1,157,639
TOTAL	1,589	12,847,954	2,300	16,781,890	23	230,642	756	5,583,161

PROPERTY CLASSIFICATION	Unclassified		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	4	115,489	24	8,138,660	155	11,586,272
Institutional	2	789	0	0	48	97,529
Residential	69	435,627	204	12,962,824	2,599	36,071,059
Business	1	1	3	59,100	50	4,218,852
Mercantile	11	533,382	29	2,609,771	158	5,268,964
Manufacturing	11	408,378	29	10,019,621	121	16,050,797
Storage	15	170,152	64	2,029,399	380	6,566,232
Special	72	371,369	726	10,117,593	3,903	24,239,608
Miscellaneous	33	482,504	119	3,703,968	637	9,053,400
TOTAL	218	2,517,691	1,198	49,640,936	8,051	115,152,713

Commentary: Electricity was the most commonly identified fuel or energy resulting in 28% of the fires and causing the greatest losses (14%). The average loss in a fire initially fueled by natural gas or other fuel gases was in excess of $26,819.

Property Losses Related to Material First Ignited 1985

PROPERTY CLASSIFICATION	Structural Components		Furniture, Furnishings		Clothing, Textiles		Wood, Paper Products	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	19	172,487	5	22,339	7	17,102	36	5,689,620
Institutional	6	10,704	16	39,204	6	3,423	8	7,881
Residential	417	6,387,261	444	4,158,051	142	1,080,677	183	2,415,421
Business	12	3,833,581	1	1	2	3,807	9	37,962
Mercantile	26	443,599	1	50	10	61,298	15	1,041,756
Manufacturing	15	553,300	1	70	1	1	18	575,503
Storage	110	900,437	11	12,308	4	34,633	57	1,273,651
Special	83	655,362	97	115,080	47	96,715	173	2,483,405
Miscellaneous	185	1,821,645	7	2,852	7	5,830	52	130,245
TOTAL	873	14,778,376	583	4,349,955	226	1,303,486	551	13,655,444

PROPERTY CLASSIFICATION	Flammable Liquids		Flammable Gases		Chemicals		Agricultural Products	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	39	2,544,707	3	7,539	2	8,545	1	100
Institutional	4	33,060	0	0	2	100	1	1
Residential	677	4,191,643	60	1,291,405	53	243,043	40	329,576
Business	7	242,570	1	1	4	7,424	3	13,235
Mercantile	35	1,284,243	8	429,756	7	500,465	5	6,294
Manufacturing	20	2,522,945	16	1,726,514	6	14,885	8	39,001
Storage	74	1,470,704	15	210,433	7	400,016	14	75,690
Special	1,119	11,579,062	88	357,187	64	250,304	240	1,266,753
Miscellaneous	36	1,351,445	30	1,720,461	7	13,142	142	877,566
TOTAL	2,011	25,220,379	221	5,743,296	152	1,437,924	454	2,608,216

PROPERTY CLASSIFICATION	Miscellaneous		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	27	621,858	16	2,501,975	155	11,586,272
Institutional	5	3,156	0	0	48	97,529
Residential	353	3,473,566	230	12,500,416	2,599	36,071,059
Business	9	79,971	2	300	50	4,218,852
Mercantile	24	119,983	27	2,381,520	158	6,268,964
Manufacturing	15	940,657	21	9,677,921	121	16,050,797
Storage	38	259,503	50	1,928,857	380	6,566,232
Special	1,247	3,090,062	745	5,345,678	3,903	25,239,608
Miscellaneous	67	539,799	104	2,590,415	637	9,053,400
TOTAL	1,785	9,128,555	1,195	36,927,082	8,051	115,152,713

Commentary: When identified, the materials most commonly first ignited were flammable liquids (25%). These fires resulted in 22% of the losses.

Property Losses Related to Initial Detection 1985

PROPERTY CLASSIFICATION	Smoke Alarm/ Detector Device		Heat Alarm/ Detector Device		Automatic Systems		Visual Sighting	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	5	63,700	1	114,439	6	11,602	143	11,396,531
Institutional	16	16,283	1	3,000	0	0	31	78,246
Residential	260	2,213,186	13	1,614,298	21	2,800	2,298	32,185,065
Business	3	3,030	0	0	0	0	46	4,211,822
Mercantile	1	5	1	89,873	5	16,649	151	6,162,437
Manufacturing	1	200	2	19,000	5	11,230	113	16,020,367
Storage	0	0	0	0	1	50	379	6,566,182
Special	0	0	0	0	0	0	3,898	25,235,803
Miscellaneous	1	1,500	0	0	1	600,000	634	8,418,249
TOTAL	287	2,297,904	18	1,840,610	39	642,331	7,693	110,274,702

PROPERTY CLASSIFICATION	Unclassified or Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	0	0	155	11,586,272
Institutional	0	0	48	97,529
Residential	7	55,710	2,599	36,071,059
Business	1	4,000	50	4,218,852
Mercantile	0	0	158	6,268,964
Manufacturing	0	0	121	16,050,797
Storage	0	0	380	6,566,232
Special	5	3,805	3,903	25,239,608
Miscellaneous	1	33,651	637	9,053,400
TOTAL	14	97,166	8,051	115,152,713

Commentary: The average loss of a fire first detected by visual sighting was $14,334. The average loss of a fire first detected by a smoke alarm/detector was $8,006.

Fires By Method of Fire Control and Extinguishment
1985

METHOD OF FIRE CONTROL AND EXTINGUISHMENT	NO. OF FIRES	LOSSES
Hand Fire Extinguisher		
Water pump tank	263	823,857
Water pressurized	83	577,707
Water soda-acid	2	3,449
Foam	11	297,106
Vapourizing liquid/Halon	3	5,765
CO_2	32	40,106
Dry chemical	422	850,006
Multi-purpose dry chemical	62	104,366
Hand fire extinguisher – unclassified	46	90,565
Sub-Total	**924**	**2,792,927**
Standpipe System		
Small hose, 38 mm nominal size, straight stream nozzle	45	149,493
Small hose, 38 mm nominal size, combination nozzle	207	1,944,536
Large hose, 65 mm nominal size, straight stream nozzle	3	62,901
Large hose, 65 mm nominal size, combination nozzle	9	666,001
Continuous flow hose, less than 38 mm nominal size, straight stream nozzle	2	1,800
Continuous flow hose, less than 38 mm nominal size, combination nozzle	2	5,700
Standpipe system – unclassified	2	310
Sub-Total	**270**	**2,830,741**
"Makeshift" Fire Fighting Aid		
Garden hose	163	264,066
Water bucket	81	87,065
Small water container	132	144,907
Sand bucket	4	1,550
Dry chemical and scoop	3	8,809
Baking soda	16	24,825
Smothering by covering	93	110,677
Snow	50	49,272
"Makeshift" fire fighting aid – unclassified	50	98,022
Sub-Total	**592**	**789,193**
Fire Department – Water		
Booster hose, 25 mm or less	260	452,322
38 mm hose, 1 hoseline	1,538	6,527,269
38 mm hose, 2 or more hoselines	832	22,657,635
65 mm hose, 1 hoseline	23	585,701
65 mm hose, 2 or more hoselines	55	12,641,209
77 mm or larger hose, 1 or more hoselines	1	6,971
Combinations of 38 mm, 65 mm, 77 mm or larger hoselines	354	27,416,983
Portable water deluge set	10	343,347
Fire department – water – unclassified	80	7,049,335
Sub-Total	**3,153**	**77,680,772**

METHOD OF FIRE CONTROL AND EXTINGUISHMENT	NO. OF FIRES	LOSSES
Fire Department – Other Than Water		
Crash-fire foam vehicle, using monitor	1	15,000
Crash-fire foam vehicle, using handlines	1	65,000
Pumper, foam handlines only, via educator	18	784,841
Vehicle, combination, foam-dry chemical	3	181,000
Vehicle, dry chemical, under 450 kg	5	2,250
Vehicle, dry chemical, 450 kg and over	0	0
Fire department – other than water – unclassified	6	13,540
Sub-Total	**34**	**1,061,631**
Sprinkler System		
Wet pipe system, central station supervised, standard watchman service, or alarm connection to fire department	11	17,030
Wet pipe system, local alarm only	15	81,651
Dry pipe system, central station supervised, standard watchman service, or alarm connection to fire department	1	50
Dry pipe system, local alarm only	0	0
Pre-action system, central station supervised, standard watchman service, or alarm connection to fire department	0	0
Pre-action system, local alarm only	0	0
Engineered systems	0	0
Sprinkler system – unclassified	0	0
Sub-Total	**27**	**98,731**
Fixed System Other Than Sprinklers		
Carbon dioxide system	0	0
Dry chemical system	8	40,705
Halon system	0	0
Conventional (Protein) foam system	0	0
High expansion foam system	0	0
Foam-water system	0	0
Water spray system	0	0
Fixed system other than sprinklers – unclassified	1	1,000
Sub-Total	**9**	**41,705**
Burned Out		
Completely burned out before arrival of fire department	207	898,227
Incapable of control by fire department on arrival	48	4,698,926
Burned out – unclassified	159	1,450,380
Sub-Total	**414**	**7,047,533**
Miscellaneous		
Portable high expansion foam generator	0	0
CO_2 handhose system, 25 kg or more	0	0
Dry chemical system, handhose system, 25 kg or more	1	497
Miscellaneous – unclassified	69	205,596
Miscellaneous – cannot be determined	2,558	22,603,386
Sub-Total	**2,628**	**22,809,480**
TOTAL	**8,051**	**115,152,713**

Commentary: Over 11% of all fires were extinguished by a hand fire extinguisher. Another 7% were extinguished by makeshift firefighting aids.

Municipal Fire Loss Statistics, for the Year Ending December 31, 1985

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 1									
Cnty of Grande Prairie	12,078	107	1,104,398	8.8	91.43	1,122	11,743,116	9.2	97.22
Beaverlodge	1,937	3	85,500	1.5	44.14	50	587,348	2.5	30.32
Hythe	681	1	50,000	1.4	73.42	20	241,657	2.9	35.48
Sexsmith	1,192	1	200	.8	.16	59	649,057	4.9	54.45
Wembley	1,209	2	3,069	1.6	2.53	31	314,856	2.5	26.04
TOTAL	**17,097**	**114**	**1,243,167**	**6.6**	**72.71**	**1,282**	**13,536,034**	**7.4**	**79.17**
COUNTY 2									
Cnty of Vulcan	3,626	18	1,047,909	4.9	288.99	172	2,695,195	4.7	74.32
Vulcan	1,507	8	16,590	5.3	11.00	39	473,282	2.5	31.40
Arrowwood	154	1	80,000	6.4	519.48	2	80,175	1.2	52.06
Carmangay	272	—	—	—	—	8	40,772	2.9	14.98
Champion	380	—	—	—	—	8	49,886	2.1	13.12
Lomond	204	—	—	—	—	6	26,189	2.9	12.83
Milo	117	—	—	—	—	3	1,755	2.5	1.50
TOTAL	**6,260**	**27**	**1,144,499**	**4.3**	**182.82**	**238**	**3,367,254**	**3.7**	**53.79**
COUNTY 3									
Cnty of Ponoka	7,536	40	276,870	5.3	36.73	461	3,386,433	6.1	44.93
Ponoka	5,221	18	111,290	3.4	21.31	160	2,879,970	3.0	55.16
Rimbey	1,906	11	73,283	5.7	38.44	68	375,724	3.5	19.71
Parkland Beach	27	--	—	—	—	—	—	—	—
TOTAL	**14,690**	**69**	**461,443**	**4.6**	**31.41**	**689**	**6,642,127**	**4.6**	**45.21**
COUNTY 4									
Cnty of Newell	6,199	32	501,368	5.1	80.87	396	46,908,546	6.3	756.71
Brooks	9,421	14	232,577	1.4	24.68	230	3,687,030	2.4	39.13
Bassano	1,230	4	2,664	3.2	2.16	38	185,730	3.0	15.10
Duchess	417	—	—	—	—	9	99,155	2.1	23.77
Rosemary	328	—	—	—	—	5	7,505	1.5	2.28
Tilley	358	—	—	—	—	6	244,586	1.6	68.32
TOTAL	**17,953**	**50**	**736,609**	**2.7**	**41.02**	**684**	**51,132,552**	**3.7**	**284.81**
COUNTY 5									
Cnty of Warner	3,460	17	250,546	4.9	72.41	181	1,747,523	5.2	50.50
Warner	486	2	14,321	4.1	29.46	19	224,707	3.9	46.23
Milk River	894	1	62,125	1.1	69.49	26	287,646	2.9	32.17
Raymond	3,145	9	27,814	2.8	8.84	86	579,129	2.7	18.41
Coutts	400	1	486,556	2.5	1,216.39	16	651,289	4.0	162.82
Stirling	790	1	200	1.2	.25	18	122,901	2.2	15.55
TOTAL	**9,175**	**31**	**841,562**	**3.3**	**91.72**	**346**	**3,613,195**	**3.7**	**39.38**
COUNTY 6									
Cnty of Stettler	5,092	19	301,619	3.7	59.23	335	5,176,230	6.5	101.65
Stettler	5,136	21	5,303,205	4.0	1,032.55	184	6,234,042	3.5	121.37
Big Valley	360	—	—	—	—	14	66,500	3.8	18.47
Botha	190	—	—	—	—	7	27,275	3.6	14.35
Donalda	256	1	6,000	3.9	23.43	7	58,050	2.7	22.67
Gadsby	56	—	—	—	—	3	45,468	5.3	81.19
Rochon Sands	51	—	—	—	—	4	12,976	7.8	25.44
White Sands	2	—	—	—	—	—	—	—	—
TOTAL	**11,143**	**41**	**5,610,824**	**3.6**	**503.52**	**554**	**11,620,541**	**4.9**	**104.28**
COUNTY 7									
Cnty of Thorhild	3,323	22	191,623	6.6	57.66	152	2,009,624	4.6	60.47
Thorhild	566	3	26,957	5.3	47.62	12	55,405	2.1	9.78
Radway	194	—	—	—	—	3	6,830	1.5	3.52
TOTAL	**4,083**	**25**	**218,580**	**6.1**	**53.53**	**167**	**2,071,859**	**4.1**	**50.74**

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 8									
Cnty of Forty Mile	3,506	24	92,589	6.8	26.40	168	1,502,811	4.7	42.86
Foremost	617	1	386	1.6	.62	31	250,400	5.0	40.58
Bow Island	1,499	6	11,646	4.0	7.76	44	219,981	2.9	14.67
Burdett	262	1	4,732	3.8	18.06	6	142,885	2.2	54.53
TOTAL	**5,884**	**32**	**109,353**	**5.4**	**18.58**	**249**	**2,116,077**	**4.2**	**35.96**
COUNTY 9									
Cnty of Beaver	5,347	33	396,089	6.1	74.07	304	2,192,810	5.6	41.01
Ryley	544	2	1,338	3.6	2.45	7	4,301	1.2	.79
Tofield	1,560	6	44,893	3.8	28.77	39	422,448	2.5	27.08
Viking	1,238	1	6,500	.8	5.25	32	1,613,733	2.5	130.35
Holden	430	1	84	2.3	.19	4	3,476	.9	.80
TOTAL	**9,119**	**43**	**448,904**	**4.7**	**49.22**	**386**	**4,236,768**	**4.2**	**46.46**
COUNTY 10									
Cnty of Wetaskiwin	9,026	50	907,366	5.5	100.52	470	4,569,186	5.2	50.58
Crystal Springs	43	—	—	—	—	1	35,600	2.3	82.79
Ma-Me-O Beach	82	7	311,001	85.3	3,792.69	23	679,957	28.0	829.21
Millet	1,428	3	39,000	2.1	27.31	24	140,925	1.6	9.86
Silver Beach	30	—	—	—	—	—	—	—	—
Grandview	53	—	—	—	—	1	332	1.8	.62
Argentia Beach	3	—	—	—	—	4	357,975	133.3	11,932.50
Poplar Bay	41	1	23,000	24.3	560.97	2	23,200	4.8	56.58
TOTAL	**10,706**	**61**	**1,280,367**	**5.6**	**119.59**	**525**	**5,807,175**	**4.9**	**54.24**
COUNTY 11									
Cnty of Barrhead	5,517	26	5,448,870	4.7	987.65	193	8,635,848	3.4	156.53
Barrhead	3,849	6	100,930	1.5	26.22	78	711,927	2.0	18.49
TOTAL	**9,366**	**32**	**5,549,800**	**3.4**	**592.54**	**271**	**9,347,775**	**2.8**	**99.80**
COUNTY 12									
Cnty of Athabasca	5,936	19	317,694	3.2	53.51	285	2,631,285	4.7	44.32
Athabasca	1,933	6	29,150	3.1	15.08	60	2,754,040	3.1	142.47
Boyle	703	3	6,216	4.2	8.84	18	46,872	2.5	6.66
Island Lake	81	—	—	—	—	—	—	—	—
Sunset Beach	36	—	—	—	—	1	2,000	2.7	5.55
Mewatha Beach	27	—	—	—	—	1	1	3.7	—
South Baptiste	65	—	—	—	—	—	—	—	—
Bondiss	44	—	—	—	—	—	—	—	—
Island Lake South	43	1	83,000	23.2	1,930.23	1	83,000	2.3	193.02
White Gull	18	—	—	—	—	—	—	—	—
West Baptiste	17	—	—	—	—	—	—	—	—
Whispering Hills	13	—	—	—	—	—	—	—	—
TOTAL	**8,916**	**29**	**436,060**	**3.2**	**48.90**	**366**	**5,517,198**	**4.0**	**61.87**
COUNTY 13									
Cnty of Smoky Lake	2,910	22	297,234	7.5	102.14	204	2,169,506	7.0	74.55
Smoky Lake	1,165	5	122,000	4.2	104.72	37	281,757	3.1	24.18
Vilna	353	—	—	—	—	9	109,060	2.5	30.89
Warspite	96	—	—	—	—	1	5,742	1.0	5.98
Waskatenau	286	—	—	—	—	1	1,888	.3	.66
TOTAL	**4,810**	**27**	**419,234**	**5.6**	**87.15**	**252**	**2,567,953**	**5.2**	**53.38**
COUNTY 14									
Cnty of Lacombe	8,783	55	468,968	6.2	53.39	715	7,548,736	8.1	85.94
Lacombe	5,954	22	2,403,353	3.6	403.65	161	3,878,707	2.7	65.14
Alix	837	—	—	—	—	14	1,776,406	1.6	212.23
Bentley	874	4	7,550	4.5	8.63	35	581,102	4.0	66.48
Blackfalds	1,614	6	32,072	3.7	19.87	35	62,598	2.1	3.87
Clive	365	—	—	—	—	8	22,883	2.1	6.26
Eckville	842	4	5,857	4.7	6.95	32	156,778	3.8	18.61
Gull Lake	80	1	1,500	12.5	18.75	14	193,693	17.5	242.11
Mirror	552	—	—	—	—	16	223,018	2.8	40.40
Birchcliff	53	—	—	—	—	1	1,100	1.8	2.07
Half Moon Bay	42	—	—	—	—	—	—	—	—
TOTAL	**19,996**	**92**	**2,919,300**	**4.6**	**145.99**	**1,031**	**14,445,021**	**5.1**	**72.23**

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 16									
City of Wheatland	5,631	35	242,767	6.2	43.11	458	4,630,638	8.1	82.23
Strathmore	3,530	5	21,200	1.4	6.00	99	3,565,886	2.8	101.01
Gleichen	381	1	10,000	2.6	26.24	12	102,470	3.1	26.89
Cluny	111	—	—	—	—	11	12,266	9.9	11.05
Hussar	173	—	—	—	—	9	1,648,944	5.2	953.14
Rockyford	292	—	—	—	—	13	472,500	4.4	161.81
Standard	379	1	261	2.6	.68	9	37,030	2.3	9.77
TOTAL	**10,497**	**42**	**274,228**	**4.0**	**26.12**	**611**	**10,469,734**	**5.8**	**99.74**
COUNTY 17									
City of Mountain View	8,832	64	549,547	7.2	62.22	663	10,043,226	7.4	113.71
Didsbury	3,219	5	18,245	1.5	5.66	107	579,448	3.3	18.00
Olds	4,932	14	462,336	2.8	93.74	156	3,991,969	3.1	80.94
Sundre	1,750	4	36,001	2.2	20.57	61	1,070,648	3.4	61.17
Carstairs	1,725	3	92,774	1.7	53.78	56	625,557	3.2	36.26
Cremona	410	—	—	—	—	18	133,543	4.3	32.57
TOTAL	**20,868**	**90**	**1,158,903**	**4.3**	**55.53**	**1,061**	**16,444,391**	**5.0**	**78.80**
COUNTY 18									
City of Paintearth	2,495	20	527,773	8.0	211.53	161	1,620,283	6.4	64.94
Castor	1,123	1	57,000	.8	50.75	18	133,973	1.6	11.92
Coronation	1,268	4	115,163	3.1	90.82	49	2,007,940	3.8	158.35
Halkirk	160	1	879	6.2	5.49	8	83,655	5.0	52.28
TOTAL	**5,046**	**26**	**700,815**	**5.1**	**138.88**	**236**	**3,845,851**	**4.6**	**76.21**
COUNTY 19									
City of St. Paul	6,352	42	796,344	6.6	125.36	438	3,972,035	6.8	62.53
St. Paul	5,052	13	34,308	2.5	6.79	167	3,164,426	3.2	62.63
Elk Point	1,208	4	93,103	3.3	77.07	36	311,132	2.9	25.75
Horseshoe Bay	10	—	—	—	—	—	—	—	—
TOTAL	**12,622**	**59**	**923,755**	**4.6**	**73.18**	**641**	**7,447,593**	**5.0**	**59.00**
COUNTY 20									
City of Strathcona	48,024	127	1,980,376	2.6	41.23	2,448	21,337,908	5.0	44.43
COUNTY 21									
City of Two Hills	3,380	19	190,647	5.6	56.40	201	1,486,825	5.9	43.98
Two Hills	1,330	3	849	2.2	.63	21	63,774	1.5	4.79
Derwent	132	—	—	—	—	3	14,245	2.2	10.79
Myrnam	423	2	1,155	4.7	2.73	10	61,830	2.3	14.61
Willingdon	404	—	—	—	—	9	65,102	2.2	16.11
Hairy Hill	72	1	490,000	13.8	6,805.55	5	1,046,482	5.5	1,453.44
TOTAL	**5,741**	**25**	**682,651**	**4.3**	**118.90**	**249**	**2,738,258**	**4.3**	**47.69**
COUNTY 22									
City of Camrose	7,564	63	1,030,194	8.3	136.19	519	4,211,484	6.8	55.67
Bashaw	875	2	3,998	2.2	4.56	25	144,708	2.8	16.53
Bawlf	368	—	—	—	—	16	1,627,080	4.3	442.14
Bittern Lake	153	—	—	—	—	3	33,815	1.9	22.10
Edberg	150	—	—	—	—	3	69,208	2.0	46.13
Ferintosh	155	—	—	—	—	1	4,500	.6	2.90
Hay Lakes	318	2	4,984	6.2	15.67	11	25,554	3.4	8.03
New Norway	309	—	—	—	—	8	6,412	2.5	2.07
Rosalind	197	1	198	5.0	1.00	6	64,067	3.0	32.52
TOTAL	**10,089**	**68**	**1,039,374**	**6.7**	**103.02**	**592**	**6,186,828**	**5.8**	**61.32**
COUNTY 23									
City of Red Deer	13,664	99	1,146,465	7.2	83.90	953	7,115,853	6.9	52.07
Innisfail	5,435	12	48,112	2.2	8.85	147	1,771,754	2.7	32.59
Sylvan Lake	3,779	10	68,809	2.6	18.20	118	1,049,497	3.1	27.77
Bowden	983	2	199,436	2.0	202.88	29	312,135	2.9	31.75
Delburne	564	5	109,615	8.8	194.35	18	156,042	3.1	27.66
Elnora	262	—	—	—	—	6	46,847	2.2	17.88
Penhold	1,588	2	700	1.2	.44	41	1,033,346	2.5	65.07
Norglenwold	113	—	—	—	—	3	166,500	2.6	147.34
TOTAL	**26,388**	**130**	**1,573,137**	**4.9**	**59.61**	**1,315**	**11,851,974**	**4.9**	**44.15**

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 24									
City of Vermilion River	7,533	50	2,068,117	6.6	274.54	535	6,306,288	7.1	83.71
Kitscoty	613	2	21,047	3.2	34.33	9	27,136	1.4	4.42
Vermilion	3,818	2	1,748	.5	.45	122	1,163,768	3.1	30.48
Dewberry	187	—	—	—	—	7	992,886	3.7	530.95
Marwayne	500	1	10,626	2.0	21.25	17	56,826	3.4	11.36
Paradise Valley	190	—	—	—	—	3	29,981	1.5	15.77
TOTAL	**12,841**	**55**	**2,101,538**	**4.2**	**163.65**	**693**	**8,576,886**	**5.3**	**66.79**
COUNTY 25									
City of Leduc	13,296	61	352,824	4.5	26.53	739	8,846,417	5.5	66.53
Calmar	1,137	4	5,100	3.5	4.48	31	223,413	2.7	19.64
Devon	3,931	3	3,150	.7	.80	63	534,049	1.6	13.58
Breton	534	1	27,039	1.8	50.63	11	77,840	2.0	14.57
New Sarepta	461	—	—	—	—	13	104,780	2.8	22.72
Thorsby	737	—	—	—	—	25	695,147	3.3	94.32
Warburg	552	—	—	—	—	12	37,859	2.1	6.85
Itaska Beach	6	4	4,000	666.6	666.66	6	180,614	100.0	3,010.23
Golden Days	46	5	231,439	108.6	5,031.28	6	231,634	13.0	503.55
Sundance Beach	14	—	—	—	—	1	10,651	7.1	76.07
Beaumont	3,723	5	13,955	1.3	3.74	31	118,720	.8	3.18
TOTAL	**24,437**	**83**	**637,507**	**3.3**	**26.08**	**938**	**11,061,124**	**3.8**	**45.26**
COUNTY 26									
City of Lethbridge	8,185	83	582,475	8.3	71.16	683	5,214,234	8.3	63.70
Coaldale	4,819	15	58,480	3.1	12.13	112	1,248,357	2.3	25.90
Picture Butte	1,562	2	19,808	1.2	12.68	33	110,895	2.1	7.09
Barons	334	—	—	—	—	6	25,372	1.7	7.59
Nobleford	547	4	45,725	7.3	83.59	17	64,472	3.1	11.78
Coalhurst	1,273	4	9,900	3.1	7.77	29	268,382	2.2	21.08
TOTAL	**16,720**	**93**	**716,388**	**5.5**	**42.84**	**880**	**6,931,712**	**5.2**	**41.45**
COUNTY 27									
City of Minburn	4,041	36	943,891	8.9	233.57	291	2,606,263	7.2	64.49
Minburn	143	4	160,300	27.9	1,120.97	6	160,401	4.1	112.16
Mannville	799	2	6,587	2.5	8.24	18	118,319	2.2	14.80
Vegreville	5,251	16	67,522	3.0	12.85	135	681,338	2.5	12.97
Innisfree	255	—	—	—	—	2	1,999	.7	.78
Lavoy	134	—	—	—	—	5	30,381	3.7	22.67
TOTAL	**10,623**	**58**	**1,178,300**	**5.4**	**110.91**	**457**	**3,598,701**	**4.3**	**33.87**
COUNTY 28									
City of Lac Ste. Anne	7,722	38	654,299	4.9	84.73	382	4,280,254	4.9	55.42
Onoway	669	5	2,303	7.4	3.44	26	187,480	3.8	28.02
Mayerthorpe	1,475	5	99,801	3.3	67.66	34	745,881	2.3	50.56
Alberta Beach	513	2	1,741	3.8	3.39	38	351,610	7.4	68.53
Castle Island	5	—	—	—	—	—	—	—	—
Sunset Point	99	—	—	—	—	3	9,583	3.0	9.67
Sungudo	405	2	2,051	4.9	5.06	11	51,988	2.7	12.83
West Cove	46	—	—	—	—	3	107,369	6.5	233.41
Yellowstone	91	—	—	—	—	1	1,000	1.0	1.09
Ross Haven	59	1	20,000	16.9	338.98	5	100,677	6.7	170.63
Val Quentin	107	1	5,500	9.3	51.40	4	8,859	3.7	8.27
Silver Sands	72	—	—	—	—	3	4,051	4.1	5.62
Nakamun Park	11	—	—	—	—	—	—	—	—
South View	33	—	—	—	—	—	—	—	—
TOTAL	**11,307**	**54**	**785,695**	**4.7**	**69.48**	**510**	**5,848,752**	**4.5**	**51.72**

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 29									
Cnty of Flagstaff	4,507	28	275,956	6.2	61.22	423	2,751,776	9.3	61.05
Sedgewick	923	2	172,373	2.1	186.75	16	244,682	1.7	26.50
Alliance	206	—	—	—	—	9	16,628	4.3	7.99
Daysland	709	3	2,013	4.2	2.83	21	97,401	2.9	13.73
Hardisty	600	2	5,602	3.3	9.33	42	211,705	7.0	35.28
Forestburg	973	3	4,463	3.0	4.56	24	49,853	2.4	5.12
Galahad	182	—	—	—	—	4	2,885	2.1	1.58
Heisler	212	1	745	4.7	3.51	9	89,872	4.2	42.39
Killam	1,001	2	20,224	1.9	20.20	24	436,539	2.3	43.61
Lougheed	261	—	—	—	—	5	17,133	1.9	6.56
Strome	281	1	525	3.5	1.86	17	450,109	6.0	160.18
TOTAL	**9,857**	**42**	**481,901**	**4.2**	**48.88**	**594**	**4,368,583**	**6.0**	**44.31**
COUNTY 30									
Cnty of Lamont	4,687	28	417,011	5.9	88.97	262	2,457,612	5.5	52.43
Lamont	1,673	3	21,448	1.7	12.82	25	378,699	1.4	22.63
Chipman	281	—	—	—	—	8	127,977	2.8	45.54
Mundare	655	8	41,694	12.2	63.65	18	91,764	2.7	14.00
Andrew	569	2	1,600	3.5	2.81	26	784,814	4.5	137.92
Bruderheim	1,238	5	7,660	4.0	6.18	33	247,201	2.6	19.96
TOTAL	**9,103**	**46**	**489,413**	**5.0**	**53.76**	**372**	**4,088,067**	**4.0**	**44.90**
COUNTY 31									
Cnty of Parkland	23,950	133	6,980,873	5.5	291.47	1,587	23,633,150	6.6	98.67
Stony Plain	5,291	4	37,078	.7	7.00	78	322,717	1.4	6.09
Betula Beach	8	—	—	—	—	1	744	12.5	9.30
Edmonton Beach	327	—	—	—	—	7	157,555	2.1	48.18
Entwistle	468	4	67,570	8.5	144.38	8	137,941	1.7	29.47
Kapaswin	4	1	500	250.0	125.00	4	503	100.0	12.57
Lakeview	22	—	—	—	—	—	—	—	—
Point Alison	3	—	—	—	—	—	—	—	—
Seba Beach	124	—	—	—	—	4	50,601	3.2	40.80
Spruce Grove	11,569	34	909,206	2.9	78.58	362	2,722,445	3.1	23.53
Drayton Valley	4,982	18	54,000	3.6	10.83	182	808,468	3.6	16.22
Wabamun	705	—	—	—	—	11	73,637	1.5	10.44
TOTAL	**47,453**	**194**	**8,049,227**	**4.0**	**169.62**	**2,244**	**27,907,761**	**4.7**	**58.81**
M.D. 6									
M.D. of Cardston	4,292	29	222,794	6.7	51.90	274	2,633,083	6.3	61.34
Cardson	3,546	8	107,243	2.2	30.24	112	932,842	3.1	26.30
Magrath	1,576	8	129,446	5.0	82.13	67	311,234	4.2	19.74
Glenwood	297	—	—	—	—	9	13,582	3.0	4.57
Hillspring	220	2	2,375	9.0	10.79	5	21,393	2.2	9.72
TOTAL	**9,931**	**47**	**461,858**	**4.7**	**46.50**	**467**	**3,912,134**	**4.7**	**39.39**
M.D. 9									
M.D. of Pincher Creek	2,970	17	196,783	5.7	66.25	181	3,112,844	6.0	104.80
Pincher Creek	3,712	5	6,242	1.3	1.68	90	339,122	2.3	9.13
Cowley	304	1	16,188	3.2	53.25	7	23,490	2.3	7.72
TOTAL	**6,986**	**23**	**219,213**	**3.2**	**31.37**	**278**	**3,475,456**	**3.9**	**49.74**
M.D. 14									
M.D. of Taber	5,637	31	273,524	5.4	48.52	461	3,982,497	8.1	70.60
Taber	6,384	13	729,377	2.0	114.25	200	8,971,158	3.1	140.52
Vauxhall	1,076	1	650	.9	.60	19	104,864	1.7	9.74
Grassy Lake	211	—	—	—	—	9	34,943	4.2	16.56
Barnwell	373	1	222	2.6	.59	3	13,572	.8	3.63
TOTAL	**13,681**	**46**	**1,003,773**	**3.3**	**73.36**	**692**	**13,107,034**	**5.0**	**95.80**
M.D. 26									
M.D. of Willow Creek	4,534	35	193,134	7.7	42.59	424	2,554,768	9.3	56.34
Stavely	548	2	4,281	3.6	7.81	13	477,441	2.3	87.12
Nanton	1,671	5	11,911	2.9	7.12	46	895,121	2.7	53.56
Claresholm	3,493	9	30,038	2.5	8.59	162	1,707,034	4.6	48.87
Ft. Macleod	3,139	8	93,141	2.5	29.67	108	709,995	3.4	22.61
Granum	399	2	2,250	5.0	5.63	32	4,396,983	8.0	1,102.00
TOTAL	**13,784**	**61**	**334,755**	**4.4**	**24.28**	**785**	**10,741,342**	**5.6**	**77.92**

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
M.D. 31									
M.D. of Foothills	9,685	39	731,554	4.0	75.53	502	6,266,174	5.1	64.69
High River	5,114	12	683,721	2.3	133.69	105	2,129,181	2.0	41.63
Black Diamond	1,450	3	38,700	2.0	26.68	35	345,287	2.4	23.81
Okotoks	4,981	2	20,657	.4	4.14	79	649,442	1.5	13.03
Blackie	343	—	—	—	—	4	40,079	1.1	11.68
Cayley	232	—	—	—	—	—	—	—	—
Turner Valley	1,298	—	—	—	—	26	495,998	2.0	38.21
Longview	292	1	28,000	3.4	95.89	5	140,418	1.7	48.08
TOTAL	**23,395**	**57**	**1,502,632**	**2.4**	**64.22**	**756**	**10,066,579**	**3.2**	**43.02**
M.D. 34									
M.D. of Acadia	604	—	—	—	—	12	129,750	1.9	**21.48**
Empress	254	2	233,339	7.8	918.65	10	320,568	3.5	**126.20**
TOTAL	**858**	**2**	**233,339**	**2.3**	**271.95**	**22**	**450,318**	**2.4**	**52.48**
M.D. 44									
M.D. of Rocky View	16,703	132	3,022,283	7.9	180.94	1,705	16,279,720	10.1	97.46
Beiseker	648	5	125,812	7.7	194.15	29	559,480	4.4	86.33
Cochrane	4,044	9	12,493	2.2	3.08	114	1,343,423	2.7	33.22
Crossfield	1,401	4	7,360	2.8	5.25	19	359,666	1.3	25.67
Irricana	726	—	—	—	—	13	44,230	1.7	6.09
Chestermere Lake	550	—	—	—	—	13	277,301	2.3	50.41
TOTAL	**24,072**	**150**	**3,167,948**	**6.2**	**131.60**	**1,893**	**18,863,820**	**7.8**	**78.36**
M.D. 47									
M.D. of Starland	2,109	7	26,487	3.3	12.55	132	1,067,449	6.2	50.61
Morrin	267	—	—	—	—	5	109,777	1.8	41.11
Delia	239	—	—	—	—	7	151,675	2.9	63.46
Munson	148	—	—	—	—	2	1,949	1.3	1.31
Rumsey	93	—	—	—	—	4	41,896	4.3	45.05
TOTAL	**2,856**	**7**	**26,487**	**2.4**	**9.27**	**150**	**1,372,748**	**5.2**	**48.06**
M.D. 48									
M.D. of Kneehill	4,831	23	640,921	4.7	132.66	313	3,851,587	6.4	79.72
Three Hills	3,539	6	230,385	1.6	65.09	77	393,939	2.1	11.13
Acme	492	3	601	6.0	1.22	11	102,023	2.2	20.73
Trochu	880	2	152,763	2.2	173.59	24	298,886	2.7	33.96
Carbon	438	—	—	—	—	3	1,674	.6	.38
Linden	461	—	—	—	—	6	1,312	1.3	.28
Torrington	230	2	101	8.6	.43	12	38,228	5.2	16.62
TOTAL	**10,871**	**36**	**1,024,771**	**3.3**	**94.26**	**446**	**4,687,649**	**4.1**	**43.12**
M.D. 52									
M.D. of Provost	2,708	24	155,751	8.8	57.51	300	2,339,091	11.0	86.37
Provost	1,779	2	10,307	1.1	5.79	66	1,437,837	3.7	80.82
Amisk	217	—	—	—	—	2	8,400	.9	3.87
Czar	188	1	201	5.3	1.06	6	6,887	3.1	3.66
Hughenden	263	1	1,660	3.8	6.31	10	44,910	3.8	17.07
TOTAL	**5,155**	**28**	**167,919**	**5.4**	**32.57**	**384**	**3,837,125**	**7.4**	**74.43**
M.D. 61									
M.D. of Wainwright	3,874	28	355,820	7.2	91.84	348	3,347,121	8.9	86.39
Wainwright	4,597	17	424,777	3.6	92.40	165	1,277,484	3.5	27.78
Irma	475	1	5,000	2.1	10.52	23	212,867	4.8	44.81
Chauvin	371	2	7,003	5.3	18.87	15	1,088,704	4.0	293.45
Edgerton	389	—	—	—	—	18	248,835	4.6	63.96
TOTAL	**9,706**	**48**	**792,600**	**4.9**	**81.66**	**569**	**6,175,011**	**5.8**	**63.62**

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
M.D. 87									
M.D. of Bonnyville	9,808	35	301,314	3.5	30.72	435	3,709,449	4.4	37.82
Bonnyville	5,223	23	398,711	4.4	76.33	155	2,692,646	2.9	51.55
Cold Lake	2,805	14	196,550	4.9	70.07	73	611,147	2.5	21.78
Grand Centre	3,506	13	78,405	3.7	22.36	124	2,249,096	3.5	64.14
Bonnyville Beach	60	1	19,000	16.6	316.66	3	21,957	5.0	36.59
Glendon	471	—	—	—	—	11	22,551	2.3	4.78
Pelican Narrows	65	1	5,000	15.3	76.92	3	6,470	4.6	9.95
TOTAL	**21,938**	**87**	**998,980**	**3.9**	**45.53**	**804**	**9,313,316**	**3.6**	**42.45**
M.D. 90									
M.D. of Sturgeon	13,979	70	1,621,382	5.0	115.98	993	14,681,913	7.0	105.02
Morinville	5,273	7	7,023	1.3	1.33	77	596,273	1.4	11.34
Gibbons	2,620	1	673	.3	.25	40	244,354	1.5	9.32
Sandy Beach	78	—	—	—	—	1	22,000	1.2	28.20
Bon Accord	1,425	6	21,627	4.2	15.17	21	124,488	1.4	8.73
Legal	1,042	2	6,717	1.9	6.44	26	184,661	2.3	17.72
Redwater	2,197	3	1,870	1.3	.85	36	369,580	1.6	16.82
TOTAL	**26,614**	**89**	**1,659,292**	**3.3**	**62.34**	**1,194**	**16,225,269**	**4.4**	**60.96**
M.D. 92									
M.D. of Westlock	7,059	39	428,859	5.5	60.75	343	4,887,320	4.8	69.23
Westlock	4,432	13	62,604	2.9	14.12	84	1,354,314	1.8	30.55
Clyde	406	1	20,000	2.4	49.26	15	114,643	3.6	28.23
Larkspur	7	—	—	—	—	—	—	—	—
TOTAL	**11,904**	**53**	**511,463**	**4.4**	**42.96**	**442**	**6,356,277**	**3.6**	**53.39**
M.D. 130									
M.D. of Smoky River	2,858	24	263,910	8.3	92.34	226	2,468,830	7.8	86.38
Falher	1,188	2	1,016	1.6	.85	34	457,895	2.8	38.54
Girouxville	325	—	—	—	—	18	471,211	5.5	144.98
McLennan	1,176	2	73,000	1.7	62.07	37	1,005,909	3.1	85.53
Donnelly	407	1	200	2.4	.49	26	211,990	6.3	52.06
TOTAL	**5,954**	**29**	**338,126**	**4.8**	**56.78**	**341**	**4,615,835**	**5.6**	**77.52**
M.D. 133									
M.D. of Spirit River	891	11	82,805	12.3	92.93	129	1,250,784	14.4	140.37
Spirit River	1,104	1	637	.9	.57	35	176,583	3.1	15.99
Rycroft	734	2	8,588	2.7	11.70	20	666,281	2.7	90.77
TOTAL	**2,729**	**14**	**92,030**	**5.1**	**33.72**	**184**	**2,093,648**	**6.7**	**76.71**
MD. 135									
M.D. of Peace River	1,520	14	71,539	9.2	47.06	190	1,436,400	12.5	94.50
Berwyn	674	—	—	—	—	6	155,458	.8	23.06
Grimshaw	2,645	9	85,495	3.4	32.32	71	1,029,378	2.6	38.91
Peace River	6,043	16	106,402	2.6	17.60	266	3,710,747	4.4	61.40
TOTAL	**10,882**	**39**	**263,436**	**3.5**	**24.20**	**533**	**6,331,983**	**4.8**	**58.18**
M.D. 136									
M.D. of Fairview	1,889	15	507,871	7.9	268.85	183	1,957,853	9.6	103.64
Fairview	3,234	9	39,985	2.7	12.36	115	3,924,329	3.5	121.34
TOTAL	**5,123**	**24**	**547,856**	**4.6**	**106.94**	**298**	**5,882,182**	**5.8**	**114.81**
M.D. 99									
M.D. of Clearwater	9,201	48	1,001,430	5.2	108.83	470	6,955,070	5.1	75.59
Rocky Mountain House	5,126	11	68,077	2.1	13.28	141	1,774,760	2.7	34.62
Caroline	431	2	6,500	4.6	15.08	13	45,220	3.0	10.49
TOTAL	**14,758**	**61**	**1,076,007**	**4.1**	**72.91**	**624**	**8,775,050**	**4.2**	**59.45**
M.D. #1									
Cypress	4,703	37	597,028	7.8	126.94	574	6,636,538	12.1	141.11
Irvine	360	1	50	2.7	.13	11	85,715	3.0	23.80
Redcliff	3,814	9	118,295	2.3	31.01	138	818,946	3.5	21.47
TOTAL	**8,877**	**47**	**715,373**	**5.2**	**80.58**	**723**	**7,541,199**	**8.1**	**84.95**
I.D. #4	176	1	2,821	5.6	16.02	13	133,858	7.3	76.05

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

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I.D. #5	122	—	—	—	—	—	—	—	—
I.D. #6	119	1	19,580	8.4	164.53	55	1,372,578	46.2	1,153.42
Crowsnest Pass	7,577	7	22,908	.9	3.02	238	3,395,086	3.1	44.80
TOTAL	**7,696**	**8**	**42,488**	**1.0**	**5.52**	**293**	**4,767,664**	**3.7**	**61.94**
I.D. #7	1,180	3	5,301	2.5	4.49	93	1,529,972	7.8	129.65
I.D. #8	1,158	11	391,054	9.4	337.69	99	2,689,083	8.4	232.21
Ghost Lake	42	1	6,272	23.8	149.33	6	15,625	14.2	37.20
Canmore	4,012	5	32,209	1.2	8.02	94	1,055,301	2.3	26.30
TOTAL	**5,212**	**17**	**429,535**	**3.2**	**82.41**	**199**	**3,760,009**	**3.7**	**72.14**
I.D. #9	1,211	4	7,437	3.3	6.14	103	1,361,886	8.5	112.45
Banff	5,738	10	482,060	.1	8.40	170	3,841,309	2.9	66.94
TOTAL	**6,949**	**14**	**489,497**	**.2**	**7.04**	**273**	**5,203,195**	**3.9**	**74.87**
I.D. #12	10	7	248,777	700.0	24,877.70	61	881,468	610.0	8,814.68
Jasper	3,960	9	17,111	.2	.43	107	914,175	2.7	23.08
TOTAL	**3,970**	**16**	**265,888**	**.4**	**6.69**	**168**	**1,795,643**	**4.2**	**45.23**
I.D. #13	36	0	0	—	—	7	87,915	19.4	244.20
I.D. #14	8,119	58	1,369,350	7.1	168.65	622	17,621,866	7.6	217.04
Wildwood	450	4	74,210	8.8	164.91	13	168,669	2.8	37.48
Evansburg	784	4	3,789	5.1	4.83	24	241,771	3.0	30.83
Edson	7,110	16	110,540	2.2	15.54	168	1,674,007	2.3	23.54
Hinton	8,904	33	189,390	3.7	21.27	359	3,842,202	4.0	43.15
TOTAL	**25,367**	**115**	**1,747,279**	**4.5**	**68.88**	**1,186**	**23,548,515**	**4.6**	**92.83**
I.D. #15	2,670	22	342,203	8.2	128.16	220	3,487,793	8.2	130.62
Whitecourt	5,408	20	179,460	3.6	33.18	265	2,318,007	4.9	42.86
Ft. Assiniboine	214	1	250	4.6	1.16	17	89,669	7.9	41.90
TOTAL	**8,292**	**43**	**521,913**	**5.1**	**62.94**	**502**	**5,895,469**	**6.0**	**71.09**
I.D. #16	5,350	56	864,655	10.4	161.61	499	17,710,897	9.3	331.04
Valleyview	2,232	8	63,734	3.5	28.55	74	999,156	3.3	44.76
Fox Creek	1,978	4	37,980	2.0	19.20	40	1,298,790	2.0	65.66
Grande Cache	4,624	4	5,851	.8	1.26	95	806,391	2.0	17.43
TOTAL	**14,184**	**72**	**972,220**	**5.0**	**68.54**	**708**	**20,815,234**	**4.9**	**146.75**
I.D. #17	12,041	106	3,716,104	8.8	308.62	943	21,438,855	7.8	178.04
High Prairie	2,580	10	3,691,924	3.8	1,430.97	109	9,448,056	4.2	366.20
Swan Hills	2,497	10	109,289	4.0	43.76	56	843,161	2.2	33.76
Kinuso	285	2	700	7.0	2.45	9	76,855	3.1	26.96
Slave Lake	4,838	12	103,236	2.4	21.33	145	826,731	2.9	17.08
Nampa	435	2	7,501	4.5	17.24	10	970,972	2.2	223.21
TOTAL	**22,676**	**142**	**7,628,754**	**6.2**	**336.42**	**1,272**	**33,604,630**	**5.6**	**148.19**
I.D. #18	9,605	87	1,949,599	9.0	202.97	851	124,827,402	8.8	1,299.60
Lac La Biche	2,242	13	115,818	5.7	51.65	96	871,167	4.3	38.85
Plamondon	271	—	—	—	—	5	1,073,303	1.8	396.05
TOTAL	**12,118**	**100**	**2,065,417**	**8.2**	**170.44**	**956**	**126,787,052**	**7.8**	**1,046.27**
I.D. #19	1,757	13	32,023	7.3	18.22	154	2,189,924	8.7	124.63
Wanham	266	—	—	—	—	20	127,045	7.5	47.76
Eaglesham	201	1	4,421	4.9	21.99	5	15,648	2.4	7.78
TOTAL	**2,224**	**14**	**36,444**	**6.2**	**16.38**	**179**	**2,332,617**	**8.0**	**104.88**
I.D. #20	3,000	11	313,204	3.6	104.40	128	1,883,566	4.2	62.78
I.D. #21	2,979	26	394,401	8.7	132.39	175	2,654,883	5.8	86.09
Hines Creek	529	2	22,865	3.7	43.22	29	831,145	5.4	157.11
TOTAL	**3,508**	**28**	**417,266**	**7.9**	**118.94**	**204**	**3,396,028**	**5.7**	**96.80**

Municipal Fire Loss Statistics for the Year Ending December 31, 1985 (cont.)

MUNICIPALITY	1985 POPULATION	1985 FIRE COUNT	1985 AMOUNT OF LOSS	1985 FIRE RATE	1985 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
I.D. #22	4,250	61	706,930	14.3	166.33	278	3,598,696	6.5	84.67
Manning	1,262	5	12,795	3.9	10.13	37	257,366	2.9	20.39
TOTAL	**5,512**	**66**	**719,725**	**11.9**	**130.57**	**315**	**3,856,062**	**5.6**	**69.95**
I.D. #23	6,563	49	1,202,252	7.4	183.18	533	10,159,927	8.1	154.80
High Level	2,852	18	190,574	6.3	66.82	101	3,240,649	3.5	113.62
Rainbow Lake	1,004	2	210,000	1.9	209.16	20	1,581,642	1.9	157.53
TOTAL	**10,419**	**69**	**1,602,826**	**6.6**	**153.83**	**654**	**14,982,218**	**6.2**	**143.79**
I.D. #24	188	1	9,582	5.3	50.96	7	5,272,215	3.7	2,804.36
INDIAN RESERVES	45,380	93	2,604,515	.2	5.73	814	14,438,895	1.7	31.81
S.A. #2	2,565	8	132,962	3.1	51.83	150	1,598,357	5.8	62.31
Hanna	3,036	9	9,824	2.9	3.23	75	839,872	2.4	27.66
TOTAL	**5,601**	**17**	**142,786**	**3.0**	**25.49**	**225**	**2,438,229**	**3.9**	**43.53**
S.A. #3	1,701	11	23,879	6.4	14.03	103	1,144,231	5.9	67.26
Cereal	258	—	—	—	—	3	129,668	1.1	50.25
Oyen	1,007	5	26,050	4.9	25.86	30	172,719	2.9	17.15
Youngstown	297	2	1,550	6.7	5.21	8	70,568	2.6	23.76
TOTAL	**3,263**	**18**	**51,479**	**5.5**	**15.77**	**144**	**1,517,186**	**4.3**	**46.49**
S.A. #4	1,776	15	246,070	8.4	138.55	111	1,506,279	6.2	84.81
Veteran	318	3	7,192	9.4	22.61	15	1,872,746	4.7	588.91
Consort	672	1	10,500	1.4	15.62	25	777,567	3.5	115.70
TOTAL	**2,766**	**19**	**263,762**	**6.8**	**95.35**	**151**	**4,156,592**	**5.4**	**150.27**
AIRDRIE	10,431	19	43,713	1.8	4.19	133	1,180,711	1.2	11.31
CALGARY	625,143	1,984	12,662,544	3.1	20.25	29,262	151,416,548	4.6	24.22
CAMROSE	12,751	48	748,452	3.7	58.69	306	2,259,007	2.3	17.71
DRUMHELLER	6,671	14	126,257	2.0	18.92	203	2,586,735	3.0	38.77
EDMONTON	560,085	1,357	8,848,990	2.4	15.79	16,767	138,254,236	2.9	24.68
FORT McMURRAY	36,810	123	724,691	3.3	19.68	1,789	11,451,458	4.8	31.10
FORT SASKATCHEWAN	12,474	23	43,615	1.8	3.49	264	10,078,278	2.1	80.79
GRANDE PRAIRIE	25,056	112	880,666	4.4	35.14	1,539	7,964,514	6.1	31.78
LEDUC	12,926	35	101,457	2.7	7.84	310	2,437,377	2.3	18.85
LETHBRIDGE	59,901	198	608,642	3.3	10.16	2,924	16,469,486	4.8	27.49
LLOYDMINSTER	10,557	27	263,097	.2	2.49	267	3,109,447	2.5	29.45
MEDICINE HAT	41,717	198	7,440,291	4.7	178.35	2,467	17,537,420	5.9	42.03
RED DEER	52,620	130	488,049	2.4	9.27	1,880	13,805,612	3.5	26.23
ST. ALBERT	35,897	71	635,851	1.9	17.71	1,425	6,669,372	3.9	18.57
WETASKIWIN	10,022	32	1,872,928	3.1	186.88	231	8,824,968	2.3	88.05

Glossary of Terminology

Section Three

Glossary of Terminology

ACT OR OMISSION – the human element by which someone has done something (an act) or failed to do something (an omission). The act or omission indicates whether the fire was deliberate, neglectful or accidental.

Incendiary or Set Fires – includes arson, suspected incendiarism, riot, mischief or vandalism.

Misuse of Source of Ignition – includes disposal of smoker's material, thawing, inadequate control of an open fire, children playing, welding or cutting too close to combustible material or torch too close to combustible material.

Misuse of Material Ignited – includes fuel spilled accidentally, improper fuelling technique, cleaning or washing parts, improper container, overheating cooking oil, combustible placed too close to heat, and improper storage.

Mechanical and Electrical Failure or Malfunction – includes part failure, automatic or manual control failure, electrical short circuit and part worn out.

Construction, Design or Installation Deficiency – includes construction or design deficiency, installation too close to a combustible, other installation deficiency and overfusing.

Misuse of Equipment – overfuelling, includes any misuse of equipment or tools.

Human Failing – includes person asleep, temporary loss of judgement, physical disability, panic, influence of alcohol or drugs and ignorance of hazard.

AREA OF ORIGIN – the area of a building or vehicle where the fire started.

Means of Egress – the area allowing an individual transit or a way of going out. Includes hallway, stairway, escalator, lobby and elevator.

Assembly, Sales Area – areas where groups of people gather. Includes theatre, arena, lounge, living room, sales or show room, library, museum and sports facility.

Function Area – the area where a mode of action or activity is undertaken. Includes sleeping area, dining area, bar, washroom, office, laboratory, printing and photographic reproduction, kitchen, laundry room, operating room, performance area and manufacturing area.

Storage Area – the area inside a building where items are stored. Includes product storage area, closet, equipment area, records storage area, shipping and receiving area, trash and rubbish area, vehicle garage and agricultural product storage.

Service Facilities – conveyance items such as dumbwaiters, service shafts, laundry and garbage chutes, heating and cooking ducts and chimneys or gas vents.

Structural Area – includes crawl space, balcony, ceiling and floor assembly, ceiling and roof assembly, wall assembly, exterior wall or exterior roof and awning or canopy.

Vehicle Area – includes engine area, fuel area, control area, passenger area and cargo area.

Outside Area – includes open area such as lawn, field or park, court, patio, parking area, outdoor storage area and trash or rubbish area.

FUEL OR ENERGY – is the fuel associated with the source of ignition. Includes coal, wood, fuel oil, gasoline, natural gas or other fuel gases, smoker's material, electricity, lightning or exposures.

INJURIES – a person accidentally injured as a direct result of a fire (a member of the fire department accidentally injured while in the process of fighting a fire or injured as a result of an accident while en route to or returning from the scene of an actual fire is considered a fire action injury.)

Minor Injury – an injury that does not require hospitalization of over a 24-hour period or absence from work of not more than one full day.

Light Injury – an injury that requires admission to a hospital of over 24 to 48 hours and/or absence from work for a period of two to fifteen days.

Serious Injury – an injury that requires admission to a hospital for a period of more than 48 hours and/or an absence from work for a period exceeding fifteen days.

MATERIAL FIRST IGNITED – the actual material that ignites and creates the fire condition.

Structural Components, Finish Materials – includes roof covering, wall covering, floor covering, structural component, ceiling covering and insulation.

Furniture, Furnishings – includes furniture, ironing board, mattress, bedding, drapery and broom, mop or brush.

Clothing, Textiles – includes clothing, fabric, fur and tarpaulin.

Wood, Paper Products – includes wood, wood shavings, paper, cardboard and paper stock.

Flammable Liquids – includes gasoline, fuel oil, flammable liquids, paint, varnish, tar, asphalt, polish and wax.

Flammable Gases – includes natural gas, propane, anaesthetic gas, acetylene and hydrogen.

Chemicals – includes starch, flour, cellulose nitrate, plastic, oxidizing material, magnesium and alloys, titanium, natural or synthetic rubber and ammonium nitrate.

Agricultural, Forestry Products – includes fibres, grains, hay, trees, felled timber, grass, fertilizer and manure.

Miscellaneous – includes coal, garbage, trash, oily rags and artificial trees.

PROPERTY CLASSIFICATION – the principal use or occupancy of the building.

Assembly – property for the gathering of persons for civic, political, travel, religious, social, educational or recreational purposes. Includes theatres, amusement or recreation places, schools, colleges, universities, churches, social or sport clubs, libraries and museums, eating establishments and passenger terminals.

Institutional – property for medical treatment, or care of persons suffering from illness, disease or infirmity, for the care of infants, convalescents or aged persons and for penal or corrective purposes. Includes prisons, jails, reformatories, homes for the aged, children's hospitals, hospitals and clinics.

Residential – property in which sleeping accommodation is provided for normal residential purposes. Includes one and two family dwellings, apartments, rooming or boarding houses, hotels, motels, dormitories and mobile homes.

Business and Personal Service – property for conducting business. Includes offices, personal services such as hairdressing and data processing or storage facilities.

Mercantile – property used for the display and sale of merchandise. Includes food and beverage sales, textile and clothing sales, furniture and appliance sales, books and specialty sales, recreational and hobby supply sales, repair shops, laundries, vehicle and boat sales and department or variety stores.

Industrial Manufacturing Properties – property where raw materials are transformed into new products and where the component parts of manufactured products are assembled. Includes chemical, petroleum, paint and plastic manufacturing; wood, furniture, and paper manufacturing; metal product and electrical equipment manufacturing; food processing; beverage, tobacco, soap and margarine manufacturing; textile manufacturing; footwear and wearing apparel manufacturing; and vehicle and related equipment manufacturing.

Storage Properties – property used primarily for the storage or sheltering of goods, merchandise, products, vehicles, or animals. Includes agricultural product storage; textile, fibre and clothing storage; processed food and beverage storage; flammable liquids, gas and petroleum products storage; wood, furniture, and paper products storage; chemical, paint and plastic storage; metal products, machinery, and electrical appliance storage and vehicle storage.

Special Property - Transportation Equipment – mainly outdoor property and transport equipment. Includes outdoor property, piers, buildings under construction or demolition, watercraft, rail transport vehicles, ground transport vehicles, aircraft and other special equipment.

Miscellaneous – includes laboratories, farm facilities, outbuildings, utilities, glass and pottery manufacturing, mining, communications and nucleonics.

SOURCE OF IGNITION – the actual equipment, device or object which brings about ignition.

Cooking Equipment – includes stove, range, food warming appliance, deep fat fryer, broiler and portable cooking unit.

Heating Equipment – includes central heating unit, service water heater, space heater, fireplace, chimney, flue pipe and steam or hot water pipe.

Appliance and Equipment – includes dryer, air conditioning equipment, pressing iron and incinerator.

Smoker's Material and "Open" Flames – cigarettes, pipes, cigars and/or matches, lighters when used in conjunction with smoking. Includes matches and lighters not associated with smoker's material, candles, cutting torches, welding equipment and hot ashes.

Exposure – includes exposure from an attached or detached structure, lumber yard, open fire, forest, grass and brush.

Miscellaneous – includes internal combustion engine, heat treatment equipment, industrial oven, tar pot, fireworks, conveyors, commercial and industrial machinery and chemical reactions.

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